

SASSIN

Switches and Relay



Алматы (7273) 495-231
Ангарск (3955) 60-70-56
Архангельск (8182) 63-90-72
Астрахань (8512) 99-46-04
Барнаул (3852) 73-04-60
Белгород (4722) 40-23-64
Благовещенск (4162) 22-76-07
Брянск (4832) 59-03-52
Владивосток (423) 249-28-31
Владикавказ (8672) 28-90-48
Владимир (4922) 49-43-18
Волгоград (844) 278-03-48
Вологда (8172) 26-41-59
Воронеж (473) 204-51-73
Екатеринбург (343) 384-55-89

Иваново (4932) 77-34-06
Ижевск (3412) 26-03-58
Иркутск (395) 279-98-46
Казань (843) 206-01-48
Калининград (4012) 72-03-81
Калуга (4842) 92-23-67
Кемерово (3842) 65-04-62
Киров (8332) 68-02-04
Коломна (4966) 23-41-49
Кострома (4942) 77-07-48
Краснодар (861) 203-40-90
Красноярск (391) 204-63-61
Курск (4712) 77-13-04
Курган (3522) 50-90-47
Липецк (4742) 52-20-81

Магнитогорск (3519) 55-03-13
Москва (495) 268-04-70
Мурманск (8152) 59-64-93
Набережные Челны (8552) 20-53-41
Нижний Новгород (831) 429-08-12
Новокузнецк (3843) 20-46-81
Новыйбурск (3496) 41-32-12
Новосибирск (383) 227-86-73
Омск (3812) 21-46-40
Орел (4862) 44-53-42
Оренбург (3532) 37-68-04
Пенза (8412) 22-31-16
Петрозаводск (8142) 55-98-37
Псков (8112) 59-10-37
Пермь (342) 205-81-47

Ростов-на-Дону (863) 308-18-15
Рязань (4912) 46-61-64
Самара (846) 206-03-16
Санкт-Петербург (812) 309-46-40
Саратов (845) 249-38-78
Севастополь (8692) 22-31-93
Саранск (8342) 22-96-24
Симферополь (3652) 67-13-56
Смоленск (4812) 29-41-54
Сочи (862) 225-72-31
Ставрополь (8652) 20-65-13
Сургут (3462) 77-98-35
Сыктывкар (8212) 25-95-17
Тамбов (4752) 50-40-97
Тверь (4822) 63-31-35

Тольятти (8482) 63-91-07
Томск (3822) 98-41-53
Тула (4872) 33-79-87
Тюмень (3452) 66-21-18
Ульяновск (8422) 24-23-59
Улан-Удэ (3012) 59-97-51
Уфа (347) 229-48-12
Хабаровск (4212) 92-98-04
Чебоксары (8352) 28-53-07
Челябинск (351) 202-03-61
Череповец (8202) 49-02-64
Чита (3022) 38-34-83
Якутск (4112) 23-90-97
Ярославль (4852) 69-52-93

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Technical specifications

Standard: IEC 60947-5-1

Rated insulation voltage U_i (V): 400

Conventional thermal current I_{th} (A): 10

Rated operational voltage U_e (V): 110, 230, 400

Rated operational current I_e (A):

● In AC-15: 2.5 for 400 V, 4.5 for 230 V

● In DC-13: 0.3 for 230 V, 0.6 for 110 V

Rated frequency (Hz): 50~60

Electrical life (10^5 times): 50 for flush-headed and mushroom-head type

10 for other types

Mechanical life (10^5 times): 10 for flush-headed and mushroom-head type

3 for button with light

1 for other types

Degree of protection: IP40

Pollution degree: 3

Overvoltage category: II

Ambient temperature (°C): -5 to +40, max. 95 % humidity


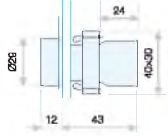

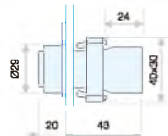

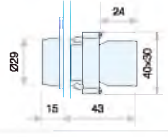
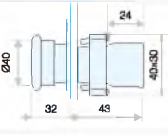
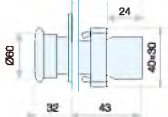
Storage temperature (°C): -30 ~+65

Maximum operating altitude (meters): 2000

3SA8 Series, metal

Selection and ordering data

Spring return pushbuttons, without symbol


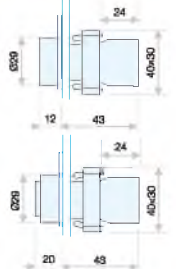
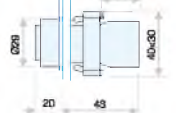
Description	Color	Contact position	Type code		Overall dimensions
			Type code	Order code	
pushbuttons with flush button					
	○ White	N/O	3SA8-BA11	34894	
	● Black	N/O	3SA8-BA21	34895	
	● Green	N/O	3SA8-BA31	34896	
	● Yellow	N/O	3SA8-BA51	34897	
	● Blue	N/O	3SA8-BA61	34898	
	● Black	N/C	3SA8-BA22	34899	
	● Red	N/C	3SA8-BA42	34900	
Pushbuttons with projecting button					
	● Black	N/O	3SA8-BL21	24805	
	● Green	N/O	3SA8-BL31	24806	
	● Yellow	N/O	3SA8-BL51	24807	
	● Blue	N/O	3SA8-BL61	24808	
	● Black	N/C	3SA8-BL22	24809	
	● Red	N/C	3SA8-BL42	24810	
Pushbuttons with booted button					
	● Black	N/O	3SA8-BP21	24811	
	● Green	N/O	3SA8-BP31	24812	
	● Yellow	N/O	3SA8-BP51	24813	
	● Blue	N/O	3SA8-BP61	24814	
	● Red	N/C	3SA8-BP42	24815	
Mushroom buttons					
ø40mm	● Black	N/O	3SA8-BC21	24816	
	● Green	N/O	3SA8-BC31	24817	
	● Yellow	N/O	3SA8-BC51	24818	
	● Blue	N/O	3SA8-BC61	24819	
	● Red	N/C	3SA8-BC42	24820	
ø60mm	● Black	N/O	3SA8-BR21	24821	
	● Red	N/C	3SA8-BR42	24822	

Pushbutton Switches


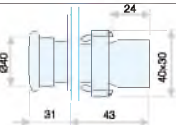

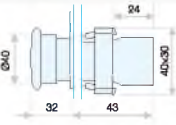

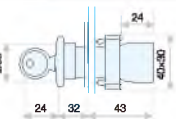
3SA8 Series, metal

Selection and ordering data


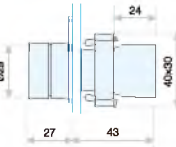

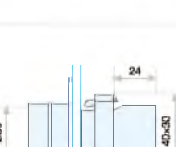

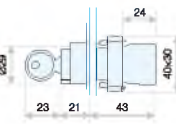
Spring return pushbuttons, with symbol

Description	Color	Contact position		Type code	Order code	Overall dimensions
 Pushbuttons with flush button		N/O		3SA8-BA3311	24823	
		N/O		3SA8-BA3341	24824	
		N/O		3SA8-BA3351	24825	
		N/C		3SA8-BA4322	24826	
		N/C		3SA8-BA4342	24827	
Pushbuttons with projecting button		N/C		3SA8-BL4322	24828	
		N/C		3SA8-BL4342	24829	

EMERGENCY STOP mushroom pushbuttons

Color	Diameter	Contact position		Type code	Order code	Overall dimensions
 EMERGENCY STOP mushroom pushbuttons, pull to release	red Ø40 Ø60	N/C		3SA8-BT42	24830	
		N/C		3SA8-BX42	24831	
 EMERGENCY STOP mushroom pushbuttons, rotate to release	red Ø30 Ø40 Ø60	N/C		3SA8-BS442	24832	
		N/C		3SA8-BS542	24833	
		N/C		3SA8-BS642	24834	
 EMERGENCY STOP mushroom pushbuttons, turn key to release	red Ø40 Ø60	N/C		3SA8-BS142	24836	
		N/C		3SA8-BS242	24837	

Selector switches



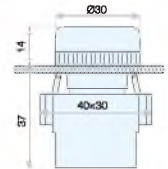
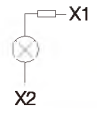
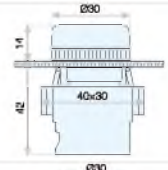

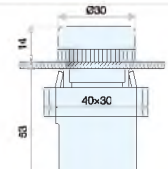
Description	Position	Contact position		Type code	Order code	Overall dimensions		
Locked keyout spring reset	 keyout 							
 Selector switches with standard handle	2 positions		N/O		3SA8-BD21	24838		
			N/O	N/C	3SA8-BD25	24839		
	3 positions		N/O	N/C	3SA8-BD41	24840		
			N/O	N/C	3SA8-BD45	24841		
			2N/O		3SA8-BD33	24842		
 Selector switches with long handle	2 positions		N/O		3SA8-BJ21	24846		
			N/O	N/C	3SA8-BJ25	24847		
	3 positions		N/O	N/C	3SA8-BJ41	24848		
			N/O	N/C	3SA8-BJ45	24849		
			2N/O		3SA8-BJ33	24850		
 Key-operated switches	2 positions		N/O		3SA8-BG21	24854		
			N/O	N/C	3SA8-BG25	24855		
	Ronis n°455 Key switch n°455		N/O	N/C	3SA8-BG41	24856		
			N/O	N/C	3SA8-BG45	24857		
		3 positions		N/O		3SA8-BG61		24858
				N/O	N/C	3SA8-BG65		24859
			2N/O		3SA8-BG33	24860		
			2N/O		3SA8-BG53	24861		
			2N/O		3SA8-BG03	24862		
	2N/O		3SA8-BG73	24863				

Pushbutton Switches

3SA8 Series, metal

Selection and ordering data

Pilot light with BA9s lampholder

Rated Voltage	Circuit	Color	Type code Order code		Overall dimensions
			Type code	Order code	
 Direct bulb BA9S ≤380 V 50/60 Hz		○ White	3SA8-BV61	24864	
		● Green	3SA8-BV63	24865	
		● Red	3SA8-BV64	24866	
		● Yellow	3SA8-BV65	24867	
		● Blue	3SA8-BV66	24868	
Via integral resistor bulb BA9S 220/240 V 50/60 Hz		○ White	3SA8-BV71	24869	
		● Green	3SA8-BV73	24870	
		● Red	3SA8-BV74	24871	
		● Yellow	3SA8-BV75	24872	
		● Blue	3SA8-BV76	24873	
Via integral transformer 1.2VA BA 9s,6V bulb supplied 110/127 V 50/60 Hz		○ White	3SA8-BV31	24874	
		● Green	3SA8-BV33	24875	
		● Red	3SA8-BV34	24876	
		● Yellow	3SA8-BV35	24877	
		● Blue	3SA8-BV36	24878	
220 /240 V 50/60 Hz		○ White	3SA8-BV41	24879	
		● Green	3SA8-BV43	24880	
		● Red	3SA8-BV44	24881	
		● Yellow	3SA8-BV45	24882	
		● Blue	3SA8-BV46	24883	
380/415 V 50/60 Hz		● Green	3SA8-BV53	24889	
		● Red	3SA8-BV54	24890	
		● Yellow	3SA8-BV55	24891	
		● Green	3SA8-BV933	24892	
		● Red	3SA8-BV934	24893	
	● Yellow	3SA8-BV935	24894		


LED bulbs are available, please contact us if you need.

Pushbutton Switches


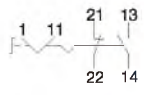
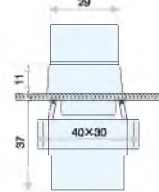
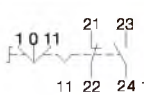
3SA8 Series, metal

Selection and ordering data

Double-headed pushbuttons, spring return, with 1 green flush button and 1 red projecting button

Description	Circuit	Color	Contact position		Type code	Order code	Overall dimensions	
 <p>Without pilot light</p>			N/O	N/C	IP40	3SA8-BL8325	24895	
			N/O	N/C	IP65	3SA8-BL9325	24896	
			N/O	N/C	IP40	3SA8-BL8425	24897	
			N/O	N/C	IP65	3SA8-BL9425	24898	
 <p>Integrated with central pilot light and yellow lens Direct supply ≤ 380 V</p>			N/O	N/C		3SA8-BW8365	24899	
			N/O	N/C		3SA8-BW8465	24900	
 <p>Direct supply 220/250 V via resistor Including BA 9s 130 V bulb</p>			N/O	N/C		3SA8-BW8375	24901	
			N/O	N/C		3SA8-BW8475	24902	
 <p>Direct supply 1.2 VA - 220 V via integral transformer Including BA 9s 6 V bulb</p>			N/O	N/C		3SA8-BW8345	24903	
			N/O	N/C		3SA8-BW8445	24904	

Selector switches with pilot light BA 9s LED


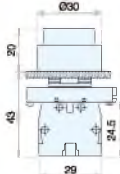

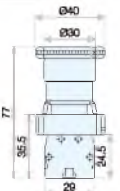

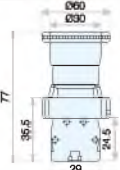
Description	Circuit	Color	Contact position		Type code	Order code	Overall dimensions
 <p>2 positions stay put</p>		Green	N/O	N/C	3SA8-BK2365	24905	
		Red	N/O	N/C	3SA8-BK2465	24906	
		Yellow	N/O	N/C	3SA8-BK2565	24907	
		Blue	N/O	N/C	3SA8-BK2665	24908	
		Clear	N/O	N/C	3SA8-BK2765	24909	
<p>3 positions stay put</p>		Green	N/O	N/C	3SA8-BK3365	24910	
		Red	N/O	N/C	3SA8-BK3465	24911	
		Yellow	N/O	N/C	3SA8-BK3565	24912	
		Blue	N/O	N/C	3SA8-BK3665	24913	
		Clear	N/O	N/C	3SA8-BK3765	24914	

Pushbutton Switches


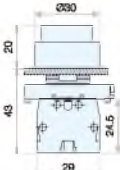
3SA5 Series, plastic

Selection and ordering data


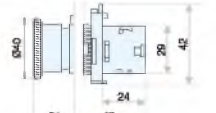
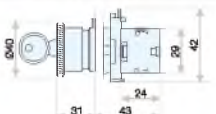
Spring return pushbuttons, without symbol

Description	Color	Contact position	Type code		Overall dimensions
			Type code	Order code	
Pushbuttons with projecting button					
	● Black	N/O	3SA5-BL21	32764	
	● Green	N/O	3SA5-BL31	32765	
	● Yellow	N/O	3SA5-BL51	32766	
	● Blue	N/O	3SA5-BL61	32767	
	● Red	N/C	3SA5-BL42	32769	
Mushroom pushbuttons					
Ø40					
	● Black	N/O	3SA5-BC21	32775	
	● Green	N/O	3SA5-BC31	32776	
	● Yellow	N/C	3SA5-BC51	32777	
	● Red	N/C	3SA5-BC42	32779	
Ø60					
	● Black	N/O	3SA5-BR21	32780	
	● Green	N/O	3SA5-BR31	34081	
	● Yellow	N/C	3SA5-BR42	32781	
	● Red	N/C	3SA5-BR52	34082	

Spring return pushbuttons, with symbol

Description	Color	Contact position	Type code		Overall dimensions
			Type code	Order code	
	ⓘ Green	N/O	3SA5-BL3311	34083	
	Ⓜ Green	N/O	3SA5-BL3361	34084	
	ⓘ ⓘ Black	N/O	3SA5-BL3351	34085	
	Ⓢ Ⓣ White	N/O	3SA5-BL3341	34086	
	Ⓢ Ⓣ Red	N/C	3SA5-BL4322	32787	
	Ⓢ Ⓣ Red	N/C	3SA5-BL4342	32788	

Plastic headed and mushroom headed emergency stop pushbutton

Description	Color	Contact position	Type code		Overall dimensions
			Type code	Order code	
EMERGENCY STOP mushroom pushbuttons, rotate to release					
Ø30	● Red	N/C	3SA5-BS442	32791	
Ø40	● Red	N/C	3SA5-BS542	32792	
Ø60	● Red	N/C	3SA5-BS642	32793	
EMERGENCY STOP mushroom pushbuttons, pull to release					
Ø40	● Red	N/C	3SA5-BT42	32789	
Ø60	● Red	N/C	3SA5-BX42	32790	
EMERGENCY STOP mushroom pushbuttons, turn key to release					
Ø40 (Key n°445)		N/C	3SA5-BS142	32795	
Ø60		N/C	3SA5-BS242	32796	

Pushbutton Switches

3SA5 Series, plastic

Selection and ordering data

Selector switches

Description	Position	Contact position		Type code	Order code	Overall dimensions
		⌋	⌋			
Locked spring reset	keyout	⌋	⌋			
Selector switches with standard handle						
2 positions	∨	N/O		3SA5-BD21	32797	
	∨	N/O	N/C	3SA5-BD25	32798	
3 positions	∨	N/O		3SA5-BD41	32799	
	∨	N/O	N/C	3SA5-BD45	32800	
	∨	2N/O		3SA5-BD33	32801	
	∨	2N/O		3SA5-BD53	32802	
	∨	2N/O		3SA5-BD73	32803	
Selector switches with long handle						
2 positions	∨	N/O		3SA5-BJ21	32805	
	∨	N/O	N/C	3SA5-BJ25	32806	
3 positions	∨	N/O		3SA5-BJ41	32807	
	∨	N/O	N/C	3SA5-BJ45	32808	
	∨	2N/O		3SA5-BJ33	32809	
	∨	2N/O		3SA5-BJ53	32810	
	∨	2N/O		3SA5-BJ73	32811	
Key-operated switches						
2 positions	∨	N/O		3SA5-BG21	32813	
	∨	N/O	N/C	3SA5-BG25	32814	
3 positions	∨	N/O		3SA5-BG41	32815	
	∨	N/O	N/C	3SA5-BG45	32816	
	∨	N/O		3SA5-BG61	32817	
	∨	N/O	N/C	3SA5-BG65	32818	
	∨	2N/O		3SA5-BG33	32819	
	∨	2N/O		3SA5-BG53	32820	
	∨	2N/O		3SA5-BG03	32821	
	∨	2N/O		3SA5-BG73	32822	

Double-headed pushbuttons, without pilot light, without symbol

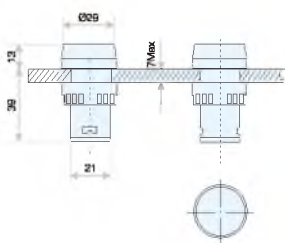
Description	Color	Degree of protection	Contact position		Type code	Order code	Overall dimensions
			⌋	⌋			
1 flush green button and 1 flush red button		IP40	N/O	N/C	3SA5-BL8325	32854	
1 flush green button and 1 projecting red button		IP40	N/O	N/C	3SA5-BL8425	32855	
1 flush green button and 1 flush red button, with transparent silicon cover		IP65	N/O	N/C	3SA5-BL9325	32856	
1 flush green button and 1 projecting red button, with transparent silicon cover		IP65	N/O	N/C	3SA5-BL9425	32857	

Indicators

Series AD22 LED

Selection and ordering data

Model	Diameter	Voltage	Color	Type code	Order code
AD22-22BS	Ø22	21 DC/AC 6 V	● Red	AD22-22BS21R	35549
			● Green	AD22-22BS21G	35550
			● Yellow	AD22-22BS21Y	35551
			○ White	AD22-22BS21W	35552
			● Blue	AD22-22BS21B	35553
		22 DC/AC 12 V	● Red	AD22-22BS22R	35554
			● Green	AD22-22BS22G	35555
			● Yellow	AD22-22BS22Y	35556
			○ White	AD22-22BS22W	35557
			● Blue	AD22-22BS22B	35558
23 DC/AC 24 V	● Red	AD22-22BS23R	35559		
	● Green	AD22-22BS23G	35560		
	● Yellow	AD22-22BS23Y	35561		
	○ White	AD22-22BS23W	35562		
	● Blue	AD22-22BS23B	35563		
24 DC/AC 36 V	● Red	AD22-22BS24R	35564		
	● Green	AD22-22BS24G	35565		
	● Yellow	AD22-22BS24Y	35566		
	○ White	AD22-22BS24W	35567		
	● Blue	AD22-22BS24B	35568		
25 DC/AC 48 V	● Red	AD22-22BS25R	35569		
	● Green	AD22-22BS25G	35570		
	● Yellow	AD22-22BS25Y	35571		
	○ White	AD22-22BS25W	35572		
	● Blue	AD22-22BS25B	35573		
26 DC/AC 110 V	● Red	AD22-22BS26R	35574		
	● Green	AD22-22BS26G	35575		
	● Yellow	AD22-22BS26Y	35576		
	○ White	AD22-22BS26W	35577		
	● Blue	AD22-22BS26B	35578		
27 DC/AC 127V	● Red	AD22-22BS27R	35579		
	● Green	AD22-22BS27G	35580		
	● Yellow	AD22-22BS27Y	35581		
	○ White	AD22-22BS27W	35582		
	● Blue	AD22-22BS27B	35583		
28 DC 220 V	● Red	AD22-22BS28R	35584		
	● Green	AD22-22BS28G	35585		
	● Yellow	AD22-22BS28Y	35586		
	○ White	AD22-22BS28W	35587		
	● Blue	AD22-22BS28B	35588		
31 AC 220 V	● Red	AD22-22BS31R	35589		
	● Green	AD22-22BS31G	35590		
	● Yellow	AD22-22BS31Y	35591		
	○ White	AD22-22BS31W	35592		
	● Blue	AD22-22BS31B	35593		
32 AC 380 V	● Red	AD22-22BS32R	35594		
	● Green	AD22-22BS32G	35595		
	● Yellow	AD22-22BS32Y	35596		
	○ White	AD22-22BS32W	35597		
	● Blue	AD22-22BS32B	35598		

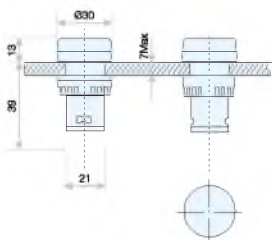


Indicators

Series AD22 LED

Selection and ordering data

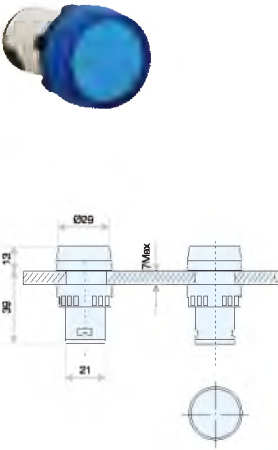
Model	Diameter	Voltage	Color	Type code	Order code
AD22-22DS	Ø22	21 DC/AC 6 V	● Red	AD22-22DS21R	35649
			● Green	AD22-22DS21G	35650
			● Yellow	AD22-22DS21Y	35651
			○ White	AD22-22DS21W	35652
			● Blue	AD22-22DS21B	35653
			22 DC/AC 12 V	● Red	AD22-22DS22R
		● Green		AD22-22DS22G	35655
		● Yellow		AD22-22DS22Y	35656
		○ White		AD22-22DS22W	35657
		● Blue		AD22-22DS22B	35658
		23 DC/AC 24 V		● Red	AD22-22DS23R
			● Green	AD22-22DS23G	35660
● Yellow	AD22-22DS23Y		35661		
○ White	AD22-22DS23W		35662		
● Blue	AD22-22DS23B		35663		
24 DC/AC 36 V	● Red		AD22-22DS24R	35664	
	● Green	AD22-22DS24G	35665		
	● Yellow	AD22-22DS24Y	35666		
	○ White	AD22-22DS24W	35667		
	● Blue	AD22-22DS24B	35668		
	25 DC/AC 48 V	● Red	AD22-22DS25R	35669	
● Green		AD22-22DS25G	35670		
● Yellow		AD22-22DS25Y	35671		
○ White		AD22-22DS25W	35672		
● Blue		AD22-22DS25B	35673		
26 DC/AC 110 V		● Red	AD22-22DS26R	35674	
	● Green	AD22-22DS26G	35675		
	● Yellow	AD22-22DS26Y	35676		
	○ White	AD22-22DS26W	35677		
	● Blue	AD22-22DS26B	35678		
	27 DC/AC 127V	● Red	AD22-22DS27R	35679	
● Green		AD22-22DS27G	35680		
● Yellow		AD22-22DS27Y	35681		
○ White		AD22-22DS27W	35682		
● Blue		AD22-22DS27B	35683		
28 DC 220 V		● Red	AD22-22DS28R	35684	
	● Green	AD22-22DS28G	35685		
	● Yellow	AD22-22DS28Y	35686		
	○ White	AD22-22DS28W	35687		
	● Blue	AD22-22DS28B	35688		
	31 AC 220 V	● Red	AD22-22DS31R	35689	
● Green		AD22-22DS31G	35690		
● Yellow		AD22-22DS31Y	35691		
○ White		AD22-22DS31W	35692		
● Blue		AD22-22DS31B	35693		
32 AC 380 V		● Red	AD22-22DS32R	35694	
	● Green	AD22-22DS32G	35695		
	● Yellow	AD22-22DS32Y	35696		
	○ White	AD22-22DS32W	35697		
	● Blue	AD22-22DS32B	35698		



Indicators

Series AD22 LED

Selection and ordering data

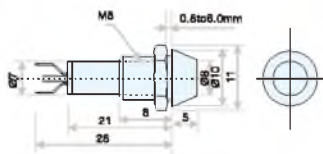
Model	Diameter	Voltage	Color	Type code	Order code	
	Ø22	21 DC/AC 6 V	<ul style="list-style-type: none"> ● Red ● Green ● Yellow ○ White ● Blue 	AD22-22D21R	35899	
					AD22-22D21G	35900
					AD22-22D21Y	35901
					AD22-22D21W	35902
					AD22-22D21B	35903
		22 DC/AC 12 V	<ul style="list-style-type: none"> ● Red ● Green ● Yellow ○ White ● Blue 	AD22-22D22R	35904	
					AD22-22D22G	35905
					AD22-22D22Y	35906
					AD22-22D22W	35907
					AD22-22D22B	35908
		23 DC/AC 24 V	<ul style="list-style-type: none"> ● Red ● Green ● Yellow ○ White ● Blue 	AD22-22D23R	35909	
					AD22-22D23G	35910
			AD22-22D23Y	35911		
			AD22-22D23W	35912		
			AD22-22D23B	35913		
24 DC/AC 36 V	<ul style="list-style-type: none"> ● Red ● Green ● Yellow ○ White ● Blue 	AD22-22D24R	35914			
			AD22-22D24G	35915		
			AD22-22D24Y	35916		
			AD22-22D24W	35917		
			AD22-22D24B	35918		
25 DC/AC 48 V	<ul style="list-style-type: none"> ● Red ● Green ● Yellow ○ White ● Blue 	AD22-22D25R	35919			
			AD22-22D25G	35920		
			AD22-22D25Y	35921		
			AD22-22D25W	35922		
			AD22-22D25B	35923		
26 DC/AC 110 V	<ul style="list-style-type: none"> ● Red ● Green ● Yellow ○ White ● Blue 	AD22-22D26R	35924			
			AD22-22D26G	35925		
			AD22-22D26Y	35926		
			AD22-22D26W	35927		
			AD22-22D26B	35928		
27 DC/AC 127V	<ul style="list-style-type: none"> ● Red ● Green ● Yellow ○ White ● Blue 	AD22-22D27R	35929			
			AD22-22D27G	35930		
			AD22-22D27Y	35931		
			AD22-22D27W	35932		
			AD22-22D27B	35933		
28 DC 220 V	<ul style="list-style-type: none"> ● Red ● Green ● Yellow ○ White ● Blue 	AD22-22D28R	35934			
			AD22-22D28G	35935		
			AD22-22D28Y	35936		
			AD22-22D28W	35937		
			AD22-22D28B	35938		
31 AC 220 V	<ul style="list-style-type: none"> ● Red ● Green ● Yellow ○ White ● Blue 	AD22-22D31R	35939			
			AD22-22D31G	35940		
			AD22-22D31Y	35941		
			AD22-22D31W	35942		
			AD22-22D31B	35943		
32 AC 380 V	<ul style="list-style-type: none"> ● Red ● Green ● Yellow ○ White ● Blue 	AD22-22D32R	35944			
			AD22-22D32G	35945		
			AD22-22D32Y	35946		
			AD22-22D32W	35947		
			AD22-22D32B	35948		

Indicators

Series AD22 LED

Selection and ordering data

Model	Diameter	Voltage	Color	Type code	Order code
AD22C-Ø8	Ø8	DC 6 V	● Red	AD22B-8D6R	34974
			● Green	AD22B-8D6G	34975
			● Yellow	AD22B-8D6Y	34976
			○ White	AD22B-8D6W	34977
			● Blue	AD22B-8D6B	34978
			DC 12 V	● Red	AD22B-8D12R
		● Green		AD22B-8D12G	35015
		● Yellow		AD22B-8D12Y	35016
		○ White		AD22B-8D12W	35017
		● Blue		AD22B-8D12B	35018
		DC 24 V		● Red	AD22B-8D24R
			● Green	AD22B-8D24G	35055
			● Yellow	AD22B-8D24Y	35056
			○ White	AD22B-8D24W	35057
			● Blue	AD22B-8D24B	35058
			DC 36 V	● Red	AD22B-8D36R
		● Green		AD22B-8D36G	35095
		● Yellow		AD22B-8D36Y	35096
		○ White		AD22B-8D36W	35097
● Blue	AD22B-8D36B	35098			
DC 48 V	● Red	AD22B-8D48R		35134	
	● Green	AD22B-8D48G	35135		
	● Yellow	AD22B-8D48Y	35136		
	○ White	AD22B-8D48W	35137		
	● Blue	AD22B-8D48B	35138		
	DC 110 V	● Red	AD22B-8D110R	35174	
● Green		AD22B-8D110G	35175		
● Yellow		AD22B-8D110Y	35176		
○ White		AD22B-8D110W	35177		
● Blue		AD22B-8D110B	35178		
DC 120 V		● Red	AD22B-8D120R	35214	
	● Green	AD22B-8D120G	35215		
	● Yellow	AD22B-8D120Y	35216		
	○ White	AD22B-8D120W	35217		
	● Blue	AD22B-8D120B	35218		
	DC 220 V	● Red	AD22B-8D220R	35254	
● Green		AD22B-8D220G	35255		
● Yellow		AD22B-8D220Y	35256		
○ White		AD22B-8D220W	35257		
● Blue		AD22B-8D220B	35258		
DC 230 V		● Red	AD22B-8D230R	35294	
	● Green	AD22B-8D230G	35295		
	● Yellow	AD22B-8D230Y	35296		
	○ White	AD22B-8D230W	35297		
	● Blue	AD22B-8D230B	35298		

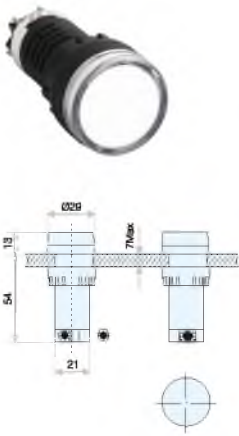


Indicators & Buzzer

Series AD22

Selection and ordering data

Model	Diameter	Color	Voltage	Type code	
				Type code	Order code
AD22-22Drg double color	Ø22	● - ● Red - Green	23 DC/AC 24 V	AD22-22DRG23RG	35999
			24 DC/AC 36 V	AD22-22DRG24RG	36000
			25 DC/AC 48 V	AD22-22DRG25RG	36001
			26 DC/AC 110 V	AD22-22DRG26RG	36002
			27 DC/AC 127 V	AD22-22DRG27RG	36003
			28 DC 220 V	AD22-22DRG28RG	36004
			31 DC 220 V	AD22-22DRG31RG	36005
		● - ● Red - Yellow	32 DC 380 V	AD22-22DRG32RG	36006
			23 DC/AC 24 V	AD22-22DRG23RY	36007
			24 DC/AC 36 V	AD22-22DRG24RY	36008
			25 DC/AC 48 V	AD22-22DRG25RY	36009
			26 DC/AC 110 V	AD22-22DRG26RY	36010
			27 DC/AC 127 V	AD22-22DRG27RY	36011
			28 DC 220 V	AD22-22DRG28RY	36012
31 DC 220 V	AD22-22DRG31RY	36013			
32 DC 380 V	AD22-22DRG32RY	36014			

















Model	Diameter	Color	Voltage	Type code		
				Type code	Order code	
AD22-22M Buzzer 80 Decibel 10 cm 15-20 mA	Ø22	● Black	23 DC/AC 24 V	AD22-22MK23	36015	
			24 DC/AC 36 V	AD22-22MK24	36016	
			25 DC/AC 48 V	AD22-22MK25	36017	
			26 DC/AC 110 V	AD22-22MK26	36018	
			27 DC/AC 127 V	AD22-22MK27	36019	
			28 DC 220 V	AD22-22MK28	36020	
			31 DC 220 V	AD22-22MK31	36021	
			32 DC 380 V	AD22-22MK32	36022	
			● Red	23 DC/AC 24 V	AD22-22MR23	36023
				24 DC/AC 36 V	AD22-22MR24	36024
25 DC/AC 48 V	AD22-22MR25	36025				
26 DC/AC 110 V	AD22-22MR26	36026				
27 DC/AC 127 V	AD22-22MR27	36027				
28 DC 220 V	AD22-22MR28	36028				
31 DC 220 V	AD22-22MR31	36029				
32 DC 380 V	AD22-22MR32	36030				



Control Stations








Selection and ordering data

3SA10 series control station

	Scheme	Description	Weight (kg)	Marking on legend	Marking on button	Type code	Order code
 <p>3SA10-B103</p>	Start-Stop functions (Light grey lid with dark grey base)						
	N/O	1 green flush pushbutton	0.120	Start	—	3SA10-B101H29	32889
	+ N/C	spring return	0.120	—	I	3SA10-B102	32890
			0.120	—	Start	3SA10-B103	32891
 <p>3SA10-B112</p>	Emergency stop functions (Yellow lid with dark grey base)						
	N/C	1 red flush pushbutton	0.120	Stop	—	3SA10-B111H29	32892
		spring return	0.120	—	Stop	3SA10-B112	32893
			0.120	—	○	3SA10-B114	32894
 <p>3SA10-B164H29</p>	N/C	1 red mushroom head pushbutton, Ø40 mm spring return	0.120	Emergency stop	—	3SA10-B164H29	32895
							
 <p>3SA10-J174</p>	Emergency stop functions (Yellow lid with dark grey base)						
	N/C	1 red mushroom head pushbutton, Ø40 mm, latching Turn to release	0.14	Stop		3SA10-J174	32896
							
 <p>3SA10-J184</p>	Emergency stop functions with (Yellow lid with dark grey base)						
	N/C	1 red mushroom head pushbutton, Ø40 mm, latching	0.17	Unmarked		3SA10-J184	32897
							
 <p>3SA10-J184</p>	Emergency stop functions with (Yellow lid with dark grey base)						
	N/C	1 red mushroom head pushbutton, Ø40 mm, latching Turn to release	0.14	Unmarked		3SA10-J178	32898
							
 <p>3SA10-J174H29</p>	Emergency stop functions with (Yellow lid with dark grey base)						
	N/C	1 red mushroom head pushbutton, Ø40 mm, latching	0.17	Unmarked		3SA10-J188	32899
							

Selection and ordering data

3SA10 series control station



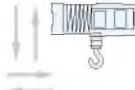






















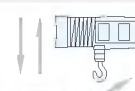








	Scheme	Description	Weight (kg)	Marking on legend	Marking on button	Type code	Order code
Start-Stop functions (Light grey lid with dark grey base)							
	N/O	2 spring return pushbutton	0.165	Start	—	3SA10-B211H29	32900
	+			Stop	—		
	N/C	1 flush green		—	I	3SA10-B213	32901
		1 flush red		—	O	3SA10-B215	32902
				—	Start		
				—	Stop		
3SA10-B211H29							
	N/O	1 selector switch 2 position stay put standard	0.125	Start	—	3SA10-B132H29	32903
				Stop	—	3SA10-B134	32904
		black handle		O	—		
				I	—		
3SA10-B213							
	N/C	1 selector switch key operated (key n°455)	0.150	Start	—	3SA10-B142H29	32905
				Stop	—		
		2 position stay put key withdrawal from LH position		O	—	3SA10-B144	32906
				I	—		
3SA10-B142H29							
Start-Stop functions with pilot light (Light grey lid with dark grey base)							
	N/O	1 red pilot light	0.200	Start	—	3SA10-B361H29	32907
	+			Direct supply ≤130V	Stop	—	
	N/C	Bulb not included (1)		—	I	3SA10-B363	32908
		+		—	O		
		2 spring return pushbuttons		—	Start	3SA10-B366	32909
		1 flush green		—	Stop		
		1 flush red					
3SA10-B132H29							
	N/O	1 red pilot light, 230V	0.205	Start	—	3SA10-B371H29	32910
	+			Supply direct through resistor	Stop	—	
	N/O	Bulb with BA 9s base fitting-130V (included)		—	I	3SA10-B373	32911
	N/C	+		—	O		
		2 spring return pushbuttons		—	Start	3SA10-B376	32912
		1 flush green		—	Stop		
		1 flush red					
3SA10-B142H29							
	N/O	1 red pilot light, 230V	0.205	Start	—	3SA10-B371H29	32910
	+			Supply direct through resistor	Stop	—	
	N/O	Bulb with BA 9s base fitting-130V (included)		—	I	3SA10-B373	32911
	N/C	+		—	O		
		2 spring return pushbuttons		—	Start	3SA10-B376	32912
		1 flush green		—	Stop		
		1 flush red					
3SA10-B361H29							
	N/O	1 red pilot light, 230V	0.205	Start	—	3SA10-B371H29	32910
	+			Supply direct through resistor	Stop	—	
	N/O	Bulb with BA 9s base fitting-130V (included)		—	I	3SA10-B373	32911
	N/C	+		—	O		
		2 spring return pushbuttons		—	Start	3SA10-B376	32912
		1 flush green		—	Stop		
		1 flush red					
3SA10-B373							

(1) Bulb types for use with direct supply:
 -incandescent bulb, BA 9s base fitting: $U \leq 130V$, maximum power 2.6W, maximum length: 28 mm,
 -neon bulb, BA 9s base fitting: $10V \leq U \leq 380V$.

Control Stations


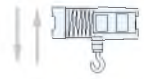























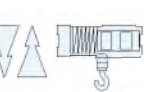

Selection and ordering data

3SP series control station

		Contact blocks and scheme per direction for "Emergency stop"	Number of operators	Functions	Type code	Order code	
For control of single-speed motors							
	3SP-A471	ZB2-BE101 	4	mechanically interlocked between pairs 	3SP-471	12699	
		ZB2-BE102 + ZB2-BE101 			3SP-481	12700	
	3SP-A671	ZB2-BE101 	ZB2-BE102 	4	mechanically interlocked between pairs +1 	3SP-4713	12702
		ZB2-BE102 + ZB2-BE101 	ZB2-BE102 	trigger action latching "Emergency stop" Ø40mm operator ZA2-BS54	3SP-4813	12703	
	3SP-A6713	ZB2-BE101 	ZB2-BE102 	6	mechanically interlocked between pairs 	3SP-671	12705
		ZB2-BE102 + ZB2-BE101 	ZB2-BE102 	trigger action latching "Emergency stop" Ø40mm operator ZA2-BS44	3SP-681	12706	
	3SP-A871	ZB2-BE101 	ZB2-BE102 	6	mechanically interlocked between pairs +1 	3SP-6713	12708
		ZB2-BE102 + ZB2-BE101 	ZB2-BE102 	trigger action latching "Emergency stop" Ø40mm operator ZA2-BS44	3SP-6813	12709	
	3SP-A871	ZB2-BE101 	ZB2-BE102 	6	mechanically interlocked between pairs 	3SP-871	12711
		ZB2-BE102 + ZB2-BE101 	ZB2-BE102 	trigger action latching "Emergency stop" Ø40mm operator ZA2-BS44	3SP-881	12712	
	3SP-A871	ZB2-BE101 	ZB2-BE102 	6	mechanically interlocked between pairs +1 	3SP-8713	12714
		ZB2-BE102 + ZB2-BE101 	ZB2-BE102 	trigger action latching "Emergency stop" Ø40mm operator ZA2-BS44	3SP-8813	12715	

Selection and ordering data


3SP series control station

		Contact blocks and scheme per direction for "Emergency stop"	Number of operators	Functions	Type code	Order code
 <p>3SP-A2713</p>	For control of 2-speed motors		2 mechanically interlocked		3SP-271	12693
	ZB2-BE101					
	ZB2-BE102 + ZB2-BE101		2 mechanically interlocked +1 trigger action latching "Emergency stop" Ø30mm operator ZA2-BS44		3SP-281	12694
	ZB2-BE101					
 <p>3SP-A291</p>	ZB2-BE102 + ZB2-BE101		2 mechanically interlocked +1 trigger action latching "Emergency stop" Ø30mm operator ZA2-BS44		3SP-2813	12697
	1N/C+NO+NO staggered XEN-G1191					
 <p>3SP-A491</p>	1N/C+NO+NO staggered XEN-G1191		2 mechanically interlocked +1 trigger action latching "Emergency stop" Ø30mm operator ZA2-BS44		3SP-291	12695
	1N/C+NO+NO staggered XEN-G1191 1N/C ZB2-BE102					
 <p>3SP-A491</p>	1N/C+NO+NO staggered XEN-G1191		4 mechanically interlocked between pairs +1 trigger action latching "Emergency stop" Ø40mm operator ZA2-BS44		3SP-491	12701
	1N/C+NO+NO staggered XEN-G1191 1N/C ZB2-BE102					
 <p>3SP-A691</p>	1N/C+NO+NO staggered XEN-G1191		4 mechanically interlocked between pairs +1 trigger action latching "Emergency stop" Ø40mm operator ZA2-BS44		3SP-4913	12704
	1N/C102(b)					
	1N/C ZB2-BE102					
 <p>3SP-A691</p>	1N/C+NO+NO staggered XEN-G1191		6 mechanically interlocked +1 trigger action latching "Emergency stop" Ø40mm operator ZA2-BS44		3SP-691	12707
	1N/C+NO+NO staggered XEN-G1191 1N/C ZB2-BE102					

Control Stations


Selection and ordering data

BS series control station

	No. of phase	Applicable motor capacity at 220V (kw)	Rated current In (A)	Function	Type code Order code		Overall dimensions (MM)
					Type code	Order code	
	2	0.75	10	ON/OFF	BS-211	32914	90x44x49
	2	2.2	15	ON/OFF	BS-216	32915	93x53x54
	2	3	30	ON/OFF	BS-230	32916	112x62x56

4

HJ9 Plastic enclosure

	The number of operating holes	Color	Type code Order code	
			Type code	Order code
	1	● Yellow	HJ9-1Y	32917
	2	● Yellow	HJ9-2Y	32918
	3	● Yellow	HJ9-3Y	32919
	4	● Yellow	HJ9-4Y	32920
	5	● Yellow	HJ9-5Y	32921
	6	● Yellow	HJ9-6Y	32922
	1	○ White	HJ9-1W	32923
	2	○ White	HJ9-2W	32924
	3	○ White	HJ9-3W	32925
	4	○ White	HJ9-4W	32926
	5	○ White	HJ9-5W	32927
	6	○ White	HJ9-6W	32928

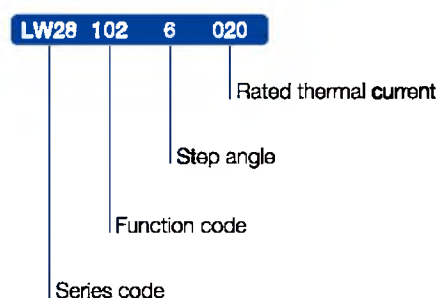
Rotary Change-over Cam Switches

Series 3SLW28

Applications and functions

- Suitable for many different switching and control functions, such as ON/OFF, Hand/Auto and changeover
- Suitable for maintenance and emergency-stop switches
- Being available in their own enclosures or for mounting in control cabinets

Instruction of type code



Technical specifications

Types	3SLW28-20	3SLW28-25	3SLW28-32	3SLW28-63	3SLW28-125	3SLW28-160
Standard	IEC 60947-3					
Rated uninterrupted current I _u (A)	20	25	32	63	125	160
Rated thermal current I _{th} (A)	20	25	32	63	125	160
Rated operational voltage U _e (V)	240/440					
Rated insulation voltage U _i (V)	660					
Rated impulse withstand voltage U _{imp} (kV)	4	4	4	6	6	6
Rated frequency (Hz)	50/60					
Number of poles	1,2,3,4					
Rated operational current in category AC-21A 280/440V (A)	20	25	32	63	125	160
in category AC-23A 380/440V (A)	15	22	30	57	100	115
Rated operational power in category AC-3 380/440V (kW)	5.5	7.5	11	18.5	22	33
In category AC-4 380/440V (kW)	1.5	3	5.5	7.5	12	15
in category AC-23A 380/441V (kW)	7.5	11	15	30	45	57
Handle type	black thumb grip and light grey front plate, padlockable handle					
Degree of protection	IP20					
Ambient air temperature (°C)	-5 to +40, max. 95 % humidity					
Storage temperature (°C)	-40--+75					
Maximum operating altitude (meters)	2000					




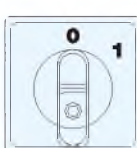

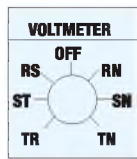

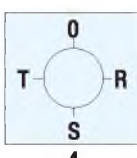
Rotary Change-over Cam Switches

Series 3SLW28

Selection and ordering data

Control switches, door mounting, with black thumb grip and light grey front plate

4


Function		Number of poles	Rated uninterrupted current (A)	Type code	Order code
				1	20
			25	LW28 102 61025	32983
			32	LW28 102 61032	32984
			63	LW28 102 61063	32985
			125	LW28 102 61125	32986
			160	LW28 102 61160	32987
		2	20	LW28 102 62020	32988
			25	LW28 102 62025	32989
			32	LW28 102 62032	32990
			63	LW28 102 62063	32991
			125	LW28 102 62125	32992
			160	LW28 102 62160	32993
		3	20	LW28 102 63020	32994
			25	LW28 102 63025	32995
			32	LW28 102 63032	32996
			63	LW28 102 63063	32997
			125	LW28 102 63125	32998
			160	LW28 102 63160	32999
		4	20	LW28 102 64020	33000
			25	LW28 102 64025	33001
			32	LW28 102 64032	33002
			63	LW28 102 64063	33003
			125	LW28 102 64125	33004
			160	LW28 102 64160	33005
		1	20	LW28 12 61020	33006
			25	LW28 12 61025	33007
			32	LW28 12 61032	33008
			63	LW28 12 61063	33009
			125	LW28 12 61125	33010
			160	LW28 12 61160	33011
		2	20	LW28 12 62020	33012
			25	LW28 12 62025	33013
			32	LW28 12 62032	33014
			63	LW28 12 62063	33015
			125	LW28 12 62125	33016
			160	LW28 12 62160	33017
		3	20	LW28 12 63020	33018
			25	LW28 12 63025	33019
			32	LW28 12 63032	33020
			63	LW28 12 63063	33021
			125	LW28 12 63125	33022
			160	LW28 12 63160	33023
		4	20	LW28 12 64020	33024
			25	LW28 12 64025	33025
			32	LW28 12 64032	33026
			63	LW28 12 64063	33027
			125	LW28 12 64125	33028
			160	LW28 12 64160	33029
Voltmeter switches, door mounting, with black thumb grip and light grey front plate					
		3	20	LW28V	33030
Ammeter switches, door mounting, with black thumb grip and light grey front plate					
		3	20	LW28A	33031

Rotary Change-over Cam Switches

Series 3SLW28

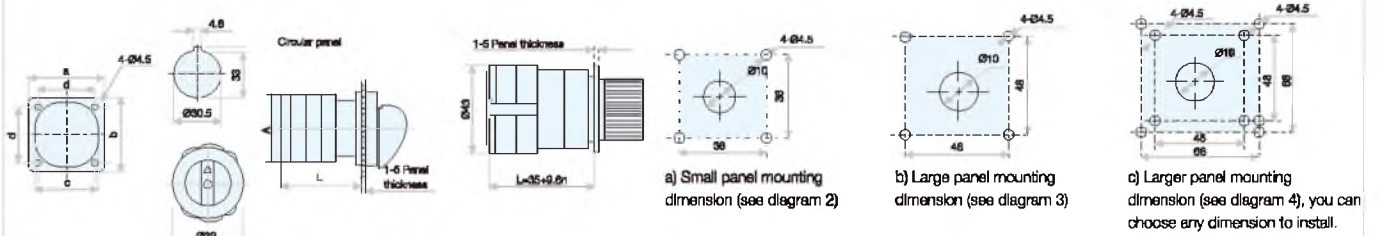
Selection and ordering data

Control switches, door mounting, with padlockable handle

	Function	Number of poles	Rated uninterrupted current (A)	Type code	Order code
	ON/OFF	1	20	LW28GS120	33056
			25	LW28GS125	33057
			32	LW28GS132	33058
			63	LW28GS163	33059
			125	LW28GS1125	33060
			160	LW28GS1160	33061
		2	20	LW28GS220	33062
			25	LW28GS225	33063
			32	LW28GS232	33064
			63	LW28GS263	33065
			125	LW28GS2125	33066
			160	LW28GS2160	33067
		3	20	LW28GS320	33068
			25	LW28GS325	33069
			32	LW28GS332	33070
			63	LW28GS363	33071
			125	LW28GS3125	33072
			160	LW28GS3160	33073
		4	20	LW28GS420	33074
			25	LW28GS425	33075
32	LW28GS432		33076		
63	LW28GS463		33077		
125	LW28GS4125		33078		
160	LW28GS4160		33079		

Outline and installation dimensions

7.2 Mounting Dimension



Type	Panel Configuration	Dimension (mm)				Mounting Dimension			
		A	B	C	L	a	b	d1	d2
3SLW28-20	M1 Square	48	48	43	22+9.6n	36	36	Ø8.5	Ø4.5
	M2 Square	64	64	43	25+9.6n	48	48	Ø10	Ø4.5
3SLW28-25	M1 Square	48	48	45.2	23+12.8n	36	36	Ø8.5	Ø4.5
	M2 Square	64	64	45.2	26.5+12.8n	48	48	Ø10	Ø4.5
3SLW28-32	M2 Square	64	64	58	29.2+12.8n	48	48	Ø10	Ø4.5
3SLW28-63	M2 Square	64	64	66	29.2+21.5n	48	48	Ø10	Ø4.5
	M3 Square	88	88	66	29.2+21.5n	68	68	Ø10	Ø4.5
3SLW28-125	M3 Square	88	88	84	35+26.5n	68	68	Ø13	Ø6
3SLW28-160	M3 Square	88	88	88	35+32.5n	68	68	Ø13	Ø6

Note: n – number of poles

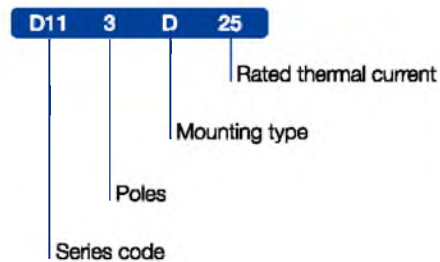
Rotary Change-over Cam Switches

Series 3SD11

Applications and functions

- Suitable for many different switching and control functions, such as ON/OFF, Hand/Auto and changeover
- Suitable for main, maintenance and Emergency-Stop switches
- Being available in their own enclosures or for mounting in control cabinets

Instruction of type code



Technical specifications


Types	3SD11-25	3SD11-32	3SD11-40	3SD11-63	3SD11-80	3SD11-100
Standard	IEC 60947-3					
Rated uninterrupted current I _u (A)	25	32	40	63	80	100
Rated thermal current I _{th} (A)	25	32	40	63	80	100
Rated operational voltage U _e (V)	240/440					
Rated insulation voltage U _i (V)	660					
Rated impulse withstand voltage U _{imp} (kV)	4	4	4	6	6	6
Rated frequency (Hz)	50/60					
Number of poles	3,4, 3+N,3+N+E,6					
Rated operational current in category AC-21A 280/440V (A)	25	32	40	63	80	100
Rated operational power in category AC-3 380/440V (kW)	5.5	7.5	11	12.5	22	30
Rated operational power in category AC-3 220/240V (kW)	3	4	7.5	11	15	18.5
Rated operational power in category AC-23A 380/440V (kW)	7.5	11	15	22	30	73
Handle type	padlockable handle					
Degree of protection	IP65					
Ambient air temperature (°C)	-5 to +40,max. 95 % humidity					
Storage temperature (°C)	-40 --+75					
Maximum operating altitude (meters)	2000					

Rotary Change-over Cam Switches



Series 3SD11

Selection and ordering data

Door mounting, with padlockable handle

	Function	Number of poles	Rated uninterrupted current (A)	Type code	Order code
	ON/OFF	3	25	D11 3D25	33080
			32	D11 3D32	33081
			40	D11 3D40	33082
			63	D11 3D63	33083
			80	D11 3D80	33084
			100	D11 3D100	33085
		4	25	D11 4D25	33086
			32	D11 4D32	33087
			40	D11 4D40	33088
			63	D11 4D63	33089
			80	D11 4D80	33090
			100	D11 4D100	33091

Rear mounting, with padlockable handle

 	ON/OFF	3	25	D11 3R25	33092	
			32	D11 3R32	33093	
			40	D11 3R40	33094	
			63	D11 3R63	33095	
			80	D11 3R80	33096	
			100	D11 3R100	33097	
		4	25	D11 4R25	33098	
			32	D11 4R32	33099	
			40	D11 4R40	33100	
			63	D11 4R63	33101	
			80	D11 4R80	33102	
			100	D11 4R100	33103	
			3+N	25	D11 3NR25	33104
				32	D11 3NR32	33105
		40		D11 3NR40	33106	
		63		D11 3NR63	33107	
		5	80	D11 3NR80	33108	
			100	D11 3NR100	33109	
25	D11 5R25		33110			
32	D11 5R32		33111			
40	D11 5R40		33112			
63	D11 5R63		33113			
80	D11 5R80		33114			
100	D11 5R100		33115			

Rotary Change-over Cam Switches

Series 3SD11

Selection and ordering data

Insulated, enclosed isolators with padlockable handle, IP65

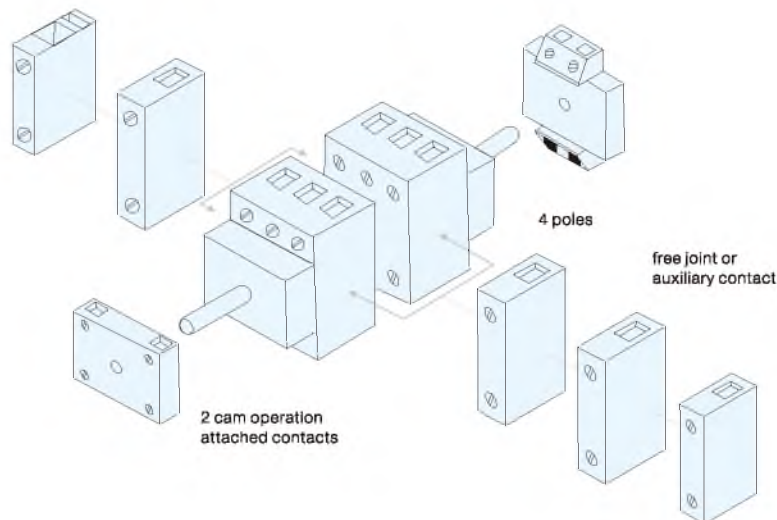
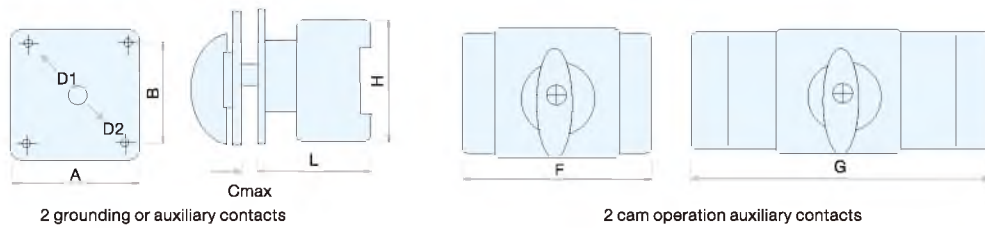
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Function	Number of poles	Rated uninterrupted current (A)	Type code	Order code
ON/OFF	3	16	D11 B316	33116
		20	D11 B320	33117
		25	D11 B325	33118
		32	D11 B332	33119
		40	D11 B340	33120
		63	D11 B363	33121
		80	D11 B380	33122
	4	100	D11 B3100	33123
		16	D11 B416	33124
		20	D11 B420	33125
		25	D11 B425	33126
		32	D11 B432	33127
		40	D11 B440	33128
		63	D11 B463	33129
80	D11 B480	33130		
100	D11 B4100	33131		

Outline and installation dimensions

Unit: mm



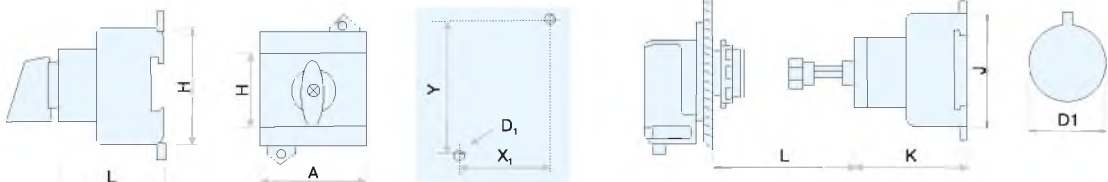
Type	Switch	Pole	B	D ₁	F	H	L	X ₁	Y
3SD11-25/3SD11-32	On-Off	3P	44	4	46	54	52	22	60
3SD11-40/3SD11-63	On-Off	3P	45	4	53	64	59	25	70
3SD11-80/3SD11-100	On-Off	3P	45	5.5	70	80	65	25	90

Rotary Change-over Cam Switches

Series 3SD11

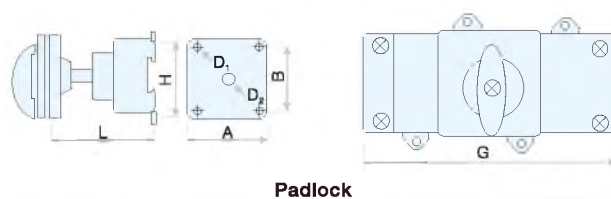
Outline and installation dimensions

Base mounting dimensions Unit: mm

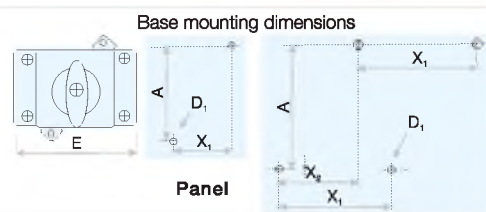


Type	Switch	Pole	A	B	Cam	D ¹	D ²	F	G	H	Lmin	Lmax	X ₁	X ₂	Y
3SD11-25	On-Off	3P	64	48	4	4	22	42	-	54	106	176	22	-	60
3SD11-32	On-Off	4P	64	48	4	4	22	56	-	54	106	176	22	-	60
	On-Off	3P+N	64	48	4	4	22	56	-	54	106	176	22	-	60
	On-Off	3P+N+E	64	48	4	4	22	69	-	54	106	176	22	-	60
	On-Off	6P	64	48	4	4	22	-	84	54	103	183	32	22	60
3SD11-40	On-Off	3P	64	48	4	4	22	50	-	64	123	193	25	-	70
3SD11-63	On-Off	4P	64	48	4	4	22	66	-	64	123	193	25	-	70
	On-Off	3P+N	64	48	4	4	22	66	-	64	123	193	25	-	70
	On-Off	3P+N+E	64	48	4	4	22	82	-	64	123	193	25	-	70
	On-Off	6P	64	48	4	4	22	-	100	64	126	196	50	25	70
3SD11-80	On-Off	3P	64	48	4	5.5	22	70	-	80	126	198	25	-	90
3SD11-100	On-Off	4P	64	48	4	5.5	22	92	-	80	126	198	25	-	90
	On-Off	3P+N+E	64	48	4	5.5	22	104	-	80	126	198	25	-	90
	On-Off	6P	88	68	4	5.5	22	-	140	80	137	209	70	25	90

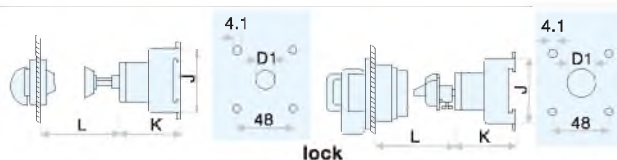
Type	Dimension (mm)			
	D1	K	Lmin	Lmax
3SD11-20	30.5	50	21	100
3SD11-32	30.5	50	21	100
3SD11-40	30.5	61	22	100
3SD11-63	30.5	61	22	100
3SD11-80	30.5	68	23	100
3SD11-100	30.5	68	23	100



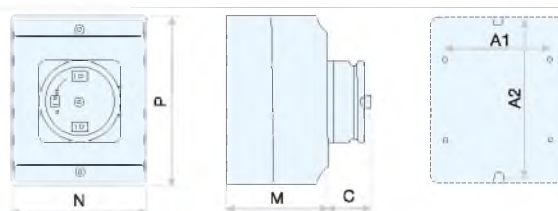
Type	Dimension (mm)			
	D1	K	Lmin	Lmax
3SD11-20	22	50	32	118
3SD11-32	22	50	32	118
3SD11-40	22	61	32	118
3SD11-63	22	61	32	118
3SD11-80	22	68	32	118
3SD11-100	22	68	32	118



Type	Dimension (mm)			
	D1	K	Lmin	Lmax
3SD11-40	39	61	61.6	118
3SD11-63	39	61	61.6	118
3SD11-80	39	68	61.5	118
3SD11-100	39	68	61.5	118



Type	Outline dimension (mm)				Installation dimension (mm)	
	P	N	M	C	A1	A2
3SD11-20	125	100	85	35	60	115
3SD11-25	125	100	85	35	60	115
3SD11-32	175	114	100	35	60	165
3SD11-40	175	114	100	35	60	165
3SD11-63	240	160	120	45	142	193
3SD11-100	240	160	120	45	142	193



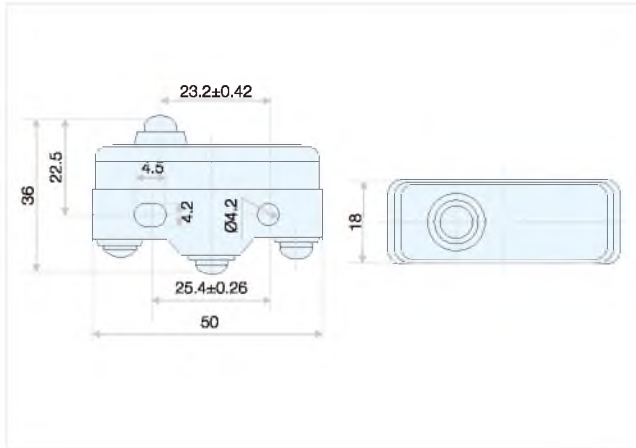
Micro Switches

Series LXW5

Applicable range

General purpose micro switches may be used in AC control circuits of 50 or 60 Hz, with a voltage up to 380V and a rated control capacity of 100VA or in DC control circuits with a voltage up to 220V and a rated control capacity of 10W.

4



LXW5-11Z

LXW5-11M



LXW5-11Q1

LXW5-11Q2

LXW5

Rated Voltage (V)	Rated controlled capacity	Rated heating current (A)	No. of Contacts	
			NO	CO
AC	380	AC100VA	1	1
	220	AC100VA	1	1
	110	AC100VA	1	1
DC	220	DC10W	1	1
	110	DC10W	1	1
	24	DC10W	1	1



LXW5-11D



LXW5-11G1



LXW5-11G2



LXW5-11G3



LXW5-11N1



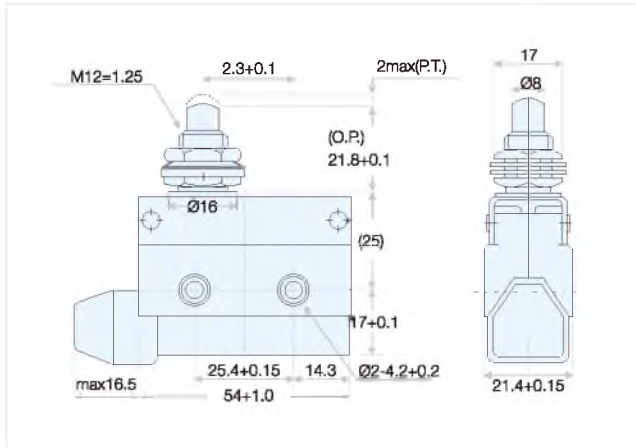
LXW5-11N2

Characteristics

Type	General purpose	General purpose protective type	Heavy current	Heavy current protective type	Actuating force N	Reset force N	Repetition accuracy mm
LXW5-11Z	LXW5-11Z/F	LXW5-11Z/L	LXW5-11Z/FL	LXW5-11Z/FL	2-3.5	>1	± 0.03
LXW5-11D	LXW5-11D/F	LXW5-11D/L	LXW5-11D/FL	LXW5-11D/FL	2-3.8	>1	± 0.05
LXW5-11M	LXW5-11M/F	LXW5-11M/L	LXW5-11M/FL	LXW5-11M/FL	2-3.8	>1	± 0.05
LXW5-11Q1	LXW5-11Q1/F	LXW5-11Q1/L	LXW5-11Q1/FL	LXW5-11Q1/FL	2-3.8	>1	± 0.05
LXW5-11Q2	LXW5-11Q2/F	LXW5-11Q2/L	LXW5-11Q2/FL	LXW5-11Q2/FL	2-3.8	>1	± 0.05
LXW5-11N1	LXW5-11N1/F	LXW5-11N1/L	LXW5-11N1/FL	LXW5-11N1/FL	0.3-0.8	>0.15	± 0.05
LXW5-11N2	LXW5-11N2/F	LXW5-11N2/L	LXW5-11N2/FL	LXW5-11N2/FL	0.5-1	>0.25	± 0.05
LXW5-11G1	LXW5-11G1/F	LXW5-11G1/L	LXW5-11G1/FL	LXW5-11G1/FL	0.35-0.85	>0.15	± 0.05
LXW5-11G2	LXW5-11G2/F	LXW5-11G2/L	LXW5-11G2/FL	LXW5-11G2/FL	0.8-1.6	>0.25	± 0.05
LXW5-11G3	LXW5-11G3/F	LXW5-11G3/L	LXW5-11G3/FL	LXW5-11G3/FL	0.4-0.9	>0.2	± 0.05

Applicable range

General purpose micro switches may be used in AC control circuits of 50 or 60 Hz, with a voltage up to 380V and a rated control capacity of 100VA or in DC control circuits with a voltage up to 220V and a rated control capacity of 10W.



Features

- Side mount switches
- Momentary contacts
- Wide choice of heads and actuators
- Sealed actuators
- Completely sealed construction
- Plastic sealed housing



AZ-7110

AZ-7120



AZ-7121

AZ-7124



AZ-7141



AZ-7144



AZ-7166



AZ-7310



AZ-7311



AZ-7312

Characteristics

Rated voltage (V)	Non-inductive load (A)				Inductive load (A)			
	Resistive load		Lamp load		Inductive load		Motor load	
	N.C.	N.O.	N.C.	N.O.	N.C.	N.O.	N.C.	N.O.
125VAC	10		3	1.5	10		5	2.5
250VAC	10		2.5	1.25	10		3	1.5
480VAC	3		1.5	0.75	2.5		1.5	0.75
8VAC	10		3	1.5	6		6	5
14VDC	10		3	1.5	6		6	5
30VDC	8		3	1.5	6		5	2.5
125VDC	0.5		0.4	0.4	0.05		0.05	0.05
250VDC	0.25		0.2	0.2	0.03		0.03	0.03

Limit Switches

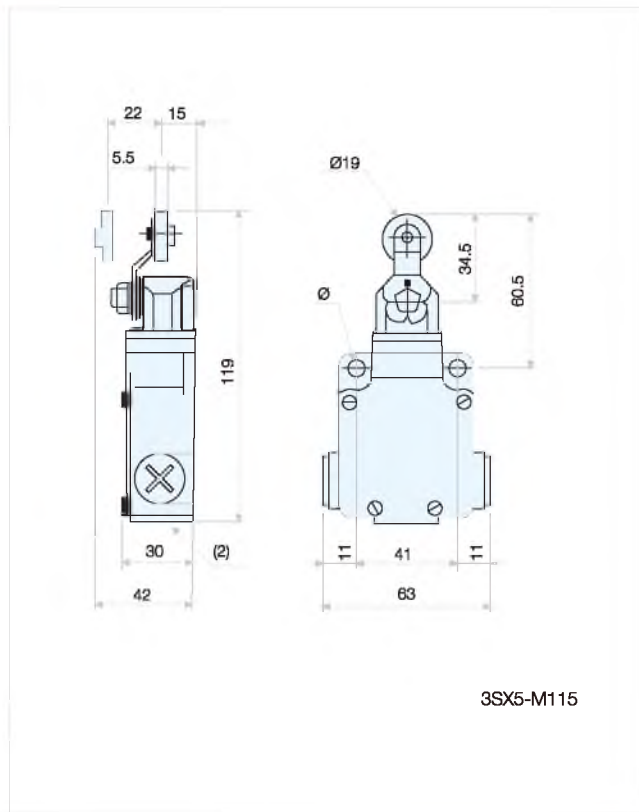
Series 3SX5-M

Applicable range

Limit switches are ideal electrical control switches. They feature compact structure, nice appearance, excellent performance, reliable action, easy installation, operation, maintenance and adjustment. At Sassin we have a variety of limit switches so you can find the limit switch that fits your individual needs.

The switches are applicable to AC control circuits of 50 to 60Hz, with a voltage up to 500V or DC control circuits with a voltage up to 250V, and a current up to 15A to convert a mechanical signal into an electrical signal for the purpose of controlling mechanical movement or performing sequential control.

4



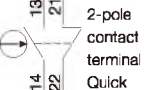
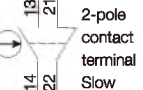
3SX5-M102

3SX5-M110



3SX5-M115

3SX5-M121

	3SX5-M model, metal, three line incoming mouths.				
	Metal head direct acting type	Steel-roller direct-acting type	Thermoplastic roller tumbler direct-acting type. Single direction with horizontal movement	Thermoplastic roller tumbler direct	Multi direction
 2-pole contact terminal Quick  2-pole contact terminal Slow					
Mechanical life (million times)	15	15	15	15	15
Motion speed (m/s)	0.5	1	1	1	1.5
Protection degree	IP65				
Rated work characters	ALTIPAK AC 15; A 300 (Ue=240V, 1e=3A)/ALTIVAR Dc13; Q 300 (Ue=250, 1e=0.27)				
Boundary dimensions: width x depth x height	63X30X64				
Complete switch (2 poles 1-close+1-open, quick)	3SX5-M110 ↻	3SX5-M102 ↻	3SX5-M121 ↻	3SX5-M115 ↻	3SX5-M106 ↻
Complete switch (2 poles 1-close+1-open, Cut off at first, cut off slowly)	3SX5-M510 ↻	3SX5-M502 ↻	3SX5-M521 ↻	3SX5-M515 ↻	—

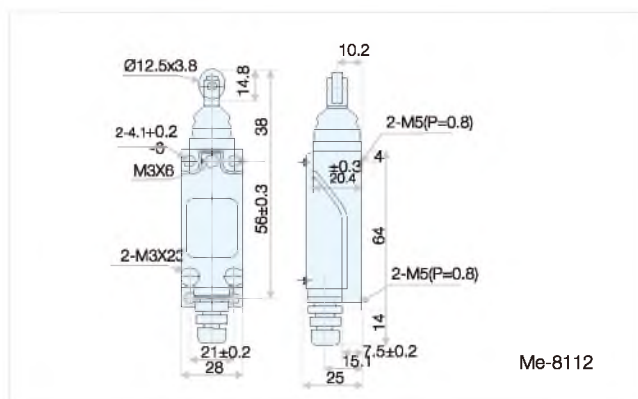
Limit Switches Series 3SX5-ME

Applicable range

Limit switches are ideal electrical control switches. They feature compact structure, nice appearance, excellent performance, reliable action, easy installation, operation, maintenance and adjustment. At Sassin we have a variety of limit switches so you can find the limit switch that fits your individual needs.

The switches are applicable to AC control circuits of 50 to 60Hz, with a voltage up to 500V or DC control circuits with a voltage up to 250V, and a current up to 15A to convert a mechanical signal into an electrical signal for the purpose of controlling mechanical movement or performing sequential control.

Voltage	Load	Resisting load	Induced load
AC 125V		5A	3A
AC 250V		5A	2A
DC 115V		0.4A	0.1A



ME-8111

ME-8122

ME-8112



ME-8104

ME-9101

ME-8108



ME-8107

ME-8166

ME-8169

Characteristics

Initial contact resistance, max 15m Ω (Initial insulation resistance) at 500VDC		By voltage drop 6 or 8V DC at rated current (min) 100m Ω
Initial breakdown voltage		1,000Vrms for 1 min between non-consecutive terminals 2,000Vrms for 1 min Between dead metal parts and each terminal 2,000Vrms for 1 min Between ground and each terminal
shock resistance max.		In the free position 10G In the operating position 30G
Vibration resistance		Standard type (max) 55Hz
Life (min. operations)	Mechanical	10^7 (at 120cpm)
	Electrical	3×10^6 , at rated resistive load of AC 5 A 3×10^5 , at magnetic contactor load of 200 V AC
Ambient temperature		-20 to + 60°C - 4 to + 140°C
Ambient humidity		<95%
Degree of protection		Ip64

Type	LJW8-8104 AZ-8104	LJW8-8108 AZ-8108	LJW8-8107 AZ-8107	LJW8-8111 AZ-8111	LJW8-8112 LJW8-8122 AZ-8112 AZ-8122	LJW8-8166 LJW8-8169 LJW8-8200 AZ-8166 AZ-8169 AZ-8200
Operation speciality						
OF (max)	750g	750g	750g	900g	900g	150g
RF (min)	100g	100 g	100 g	150 g	150 g	—
PT	20°	20°	20°	1.5mm	1.5mm	30mm
OT (min)	50°	50°	50°	4mm	4mm	—
MD (max)	12°	12°	12°	1mm	1mm	—
OP	—	—	—	26 \pm 0.8mm	37 \pm 0.8mm	—

Limit Switches

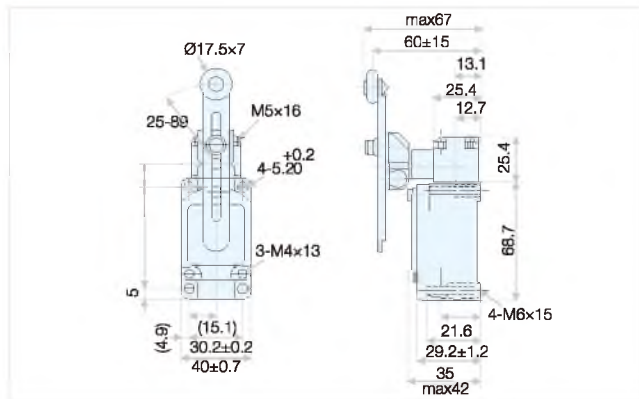
Series 3SX5-WL

Applicable range

Limit switches are ideal electrical control switches. They feature compact structure, nice appearance, excellent performance, reliable action, easy installation, operation, maintenance and adjustment. At Sassin we have a variety of limit switches so you can find the limit switch that fits your individual needs.

The switches are applicable to AC control circuits of 50 to 60Hz, with a voltage up to 500V or DC control circuits with a voltage up to 250V, and a current up to 15A to convert a mechanical signal into an electrical signal for the purpose of controlling mechanical movement or performing sequential control.

4



WL-CL

WL-CA12



WL-D

WL-D2



WL-NJ-S2

WL-NJ

WL-CA32-41

WL-CA12-2

WL-CA2-2

WL-CA2

Protection degree		IP 67
Life	Mechanical (times)	1500,000
	Electrical (times)	750,000
Operation speed		1mm~1m/s
Operation frequency	Mechanical	120times/m
	Electrical	30times/m
Insulation resistance		100MΩ DC 500V
Contact resistance		25mΩ (Initial value)
Withstand voltage (50/61Hz 1min)	Between the terminals of same pole	AC 1,000V(800V)
	Between charged metal parts	AC 2,200V(1,500V)
	Between non-charged metal parts of each terminal	AC 2,200V(1,500V)
Vibration	misoperation	10~55Hz(amplitude)
		1.5mm
Load		AC 250V 10A
		AC 380V 10A
		DC 125V 5A
		AC 250V 5A
Ambient operating temperature		-10~+80
Humidity		<95%

Float Switches

Series 3SY-2

Selection and ordering data

Type	Outline	Operation Voltage (V)	Body Color	Cable Length (meter)	Type code	Order code
3SY-1	Rectangle	220	Red	2	FS1 R2	32575
				3	FS1 R3	32576
				4	FS1 R4	32577
				5	FS1 R5	32578
3SY-2	Trapezium	220	Blue	2	FS2 B2	32603
				3	FS2 B3	32604
				4	FS2 B4	32605
				5	FS2 B5	32606
3SY-3	Large circular	220	Blue	2	FS3 B2	32623
				3	FS3 B3	32624
				4	FS3 B4	32625
				5	FS3 B5	32626
3SY-4	Small circular	220	Blue	2	FS4 B2	32643
				3	FS4 B3	32644
				4	FS4 B4	32645
				5	FS4 B5	32646
3SY-5	Oval	220	Black	2	FS5 H2	32671
				3	FS5 H3	32672
				4	FS5 H4	32673
				5	FS5 H5	32674

Toggle Switches

Technical specifications

Withstand Voltage (V): AC 2000
 Rated voltage (V): 250
 Frequency (Hz): 50/60
 Capacitance tolerance: ≤15mΩ
 Ambient Temperature (°C): -25~80
 Vibration: 10 to 55 Hz, 1.5mm double vibration
 Humidity: ≤80% RH
 Mechanical Life: ≤50000
 Electrical Life: ≤10000
 Dielectric strength (min): 1,000 V RMS



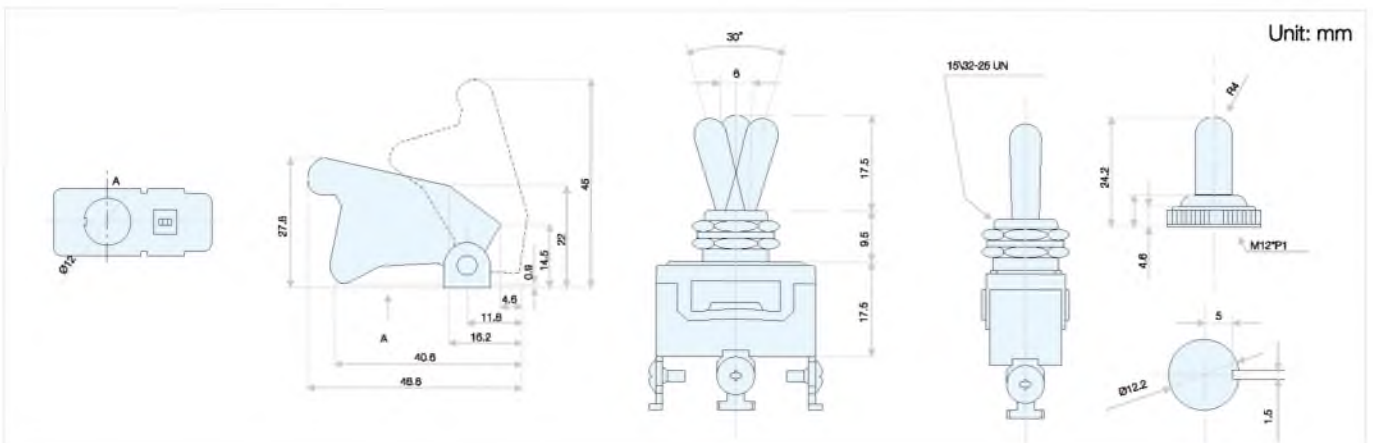
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Selection and ordering data







	Function	Rated Voltage (V)	Rated Current (A)	Screw terminal		Fast connect terminal		Welding terminal		
				Type code	Order code	Type code	Order code	Type code	Order code	
	1-Pole, 1-Stay	250	10	ON-OFF	TS1021	32518	-	-	-	-
	ON-ON			TS1121	32519	-	-	-	-	
	ON-OFF			TS1221	32520	-	-	-	-	
	ON-ON			TS1321	32521	-	-	-	-	
	ON-OFF-ON			TS1122	32522	-	-	-	-	
	1-Pole, 1-Stay	125/250	15/10	ON-OFF	T701AW	32524	T701AT	32525	T701AU	32526
	ON-ON			T701BW	32527	T701BT	32528	T701BU	32529	
	ON-OFF-ON			T701CW	32530	T701CT	32531	T701CU	32532	
	(ON)-ON			T701DW	32533	T701DT	32534	T701DU	32535	
	(ON)-OFF-(ON)			T701MW	32536	T701MT	32537	T701MU	32538	
	(ON)-OFF-ON			T701RW	32539	T701RT	32540	T701RU	32541	
	2-Pole, 2-Stay	125/250	15/10	ON-OFF	T702AW	32542	T702AT	32543	T702AU	32544
	ON-ON			T702BW	32545	T702BT	32546	T702BU	32547	
	ON-OFF-ON			T702CW	32548	T702CT	32549	T702CU	32550	
	(ON)-ON			T702DW	32551	T702DT	32552	T702DU	32553	
	(ON)-OFF-(ON)			T702MW	32554	T702MT	32555	T702MU	32556	
	(ON)-OFF-ON			T702RW	32557	T702RT	32558	T702RU	32559	

	Function	Color	Plastic base		Metal base	
			Type code	Order code	Type code	Order code
	Touch protection	● Red	T700-1R	32560	-	-
		● Blue	T700-1B	32561	-	-
		● Yellow	T700-1Y	32562	-	-
		● Green	T700-1G	32563	-	-
		○ Transpernt	T700-1T	32564	-	-
	Dust proof Water proof	● Black	T700-2HS	32565	T700-2HM	32570
		● Yellow	T700-2YS	32566	T700-2YM	32571
		● Blue	T700-2BS	32567	T700-2BM	32572
		● Red	T700-2RS	32568	T700-2RM	32573
		● Green	T700-2GS	32569	T700-2GM	32574

Outline and installation dimensions



Selection and ordering data

Picture	Type	Material	Color	Cable length (Meter)	Type code	Order code
	SFM-1			-	SFM-1C0	14896
				2	SFM-1C2	14897
	SFMP-1			-	SFMP-1C0	14902
				2	SFMP-1C2	14903
	SFMS-1		● Green	-	SFMS-1GC0	14904
				2	SFMS-1GC2	14905
			● Yellow	-	SFMS-1YC0	14906
				2	SFMS-1YC2	14907
	SFMS-10			-	SFMS-10C0	14908
	SFM-5			-	SFM-5C0	14901
	FS-3	Plastic		-	FS-3PC0	14869
				2	FS-3PC2	14870
		Aluminous		-	FS-3AC0	14871
				2	FS-3AC2	14872

Voltage Protection Relay

Series 3SRV1

Functions and Applications

- Control for connection of moving equipments (site equipment, agricultural equipment, refrigerated trucks).
- Control for protection of persons and equipment against the consequences of reverse running.
- Protection against the risk of a driving load (phase loss).
- Normal/emergency power supply switching.
- Widely used in industry control system, power compensation system, air conditioning system, motor control system.



4

Instruction of type code

RV1	05	P / N220	
Series code	Function code (code 01-19, see below table)	P: Optional function	Rated control voltage code: N220: 220V, N230: 230V, N240: 240V, A380: 380V, A400: 400V, A415: 415V

Features

- Controls its own supply voltage (true RMS measurement).
- Loss of neutral.
- LED display for control status.
- Applicable to used for monitoring circuits of single phase, two phase, three phase three wires and three phase four wires.
- Voltage measurement accuracy $\leq 1\%$.
- Measuring frequency: 50/60 Hz.
- PTC temperature monitoring or load side monitoring is optional.
- DIN rail mounting.

Technical specifications

Rated supply voltage: AC 220 V, 230 V, 240 V (P-N)
AC 380 V, 400 V, 415 V (P-P)

Control circuit frequency: 50Hz/60Hz

Voltage hysteresis: 3.5 V (P-N)
6 V (P-P)

Measurement error: $\leq 1\%$ over the full range with voltage variation

Knob setting accuracy: 1% of scale value

Rated insulated voltage: 415 V

Phase loss sensitivity: $0.5 U_n$

Conventional thermal current: 5 A

Electrical life: 100,000 cycles

Mechanical life: 1,000,000 cycles

Degree of protection: IP 20

Degree of pollution: 3

Altitude: ≤ 2000 meter

Operation temperature: $-5 \dots +40$ °C

Relative humidity: $\leq 50\%$ (40 °C)

Storage temperature: $-25 \dots +75$ °C

Utilization category: AC-15

Contact capacity: U_e/I_e : 250 V/1.5 A

Connection capacity: $0.5 \dots 1$ mm²

Tightening torque: 0.5 Nm

Voltage Protection Relay

Series 3SRV1

Technical specifications

Monitoring function		Model	3SRV1-01	3SRV1-02	3SRV1-03	3SRV1-04	3SRV1-05	3SRV1-06	3SRV1-07	3SRV1-08	3SRV1-09	3SRV1-10	3SRV1-11	3SRV1-12	3SRV1-13	3SRV1-14	3SRV1-15	3SRV1-16	3SRV1-17	3SRV1-18	3SRV1-19
Overvoltage																					
Setting range	1.05 ... 1.30 Us		●		●	●	●	●	●	●	●	●									
	1.15 Us												●	●	●	●	●	●			
Time delay range	0.1 ... 10 s		●		●	●	●	●	●	●											
	2 s										●	●	●	●	●	●	●	●			
Undervoltage																					
Setting range	0.70 ... 0.95 Us			●	●	●	●	●	●	●	●	●									
	0.85 Us												●	●	●	●	●	●			
Time delay range	0.1 ... 10 s			●	●	●	●	●	●	●											
	2 s										●	●	●	●	●	●	●	●			
Unbalance																					
Setting range	5% ... 15% Us								●	●			●	●						●	
	8% Us						●	●			●	●			●	●					●
Time delay range	0.1 ... 10 s								●	●			●	●						●	
	2 s						●	●			●	●			●	●					●
Phase sequence					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Phase loss		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
PTC temperature				○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Load side				○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

● Available

○ Optional

Note: 1. In circuits three-phase four wires, relays without phase sequence protection is available for voltage protection for single-phase and two-phase.

2. Load side protection is available for Phase to Phase.

Voltage Protection Relay

Series 3SRV1

Selection and ordering data

Model	Monitoring function			Extended	Rated supply voltage	Type code	Order code						
	Basic	Voltage setting range	Time delay setting range										
3SRV1-01	Overvoltage Phase loss	1.05 ... 1.30	0.1 ... 10 s		220 V	RV1-01/N220	36741						
					230 V	RV1-01/N230	36742						
					240 V	RV1-01/N240	36743						
					380 V	RV1-01/A380	36744						
					400 V	RV1-01/A400	36745						
3SRV1-02	Undervoltage Phase loss	0.70 ... 0.95	0.1 ... 10 s		220 V	RV1-02/N220	36747						
					230 V	RV1-02/N230	36748						
					240 V	RV1-02/N240	36749						
					380 V	RV1-02/A380	36750						
					400 V	RV1-02/A400	36751						
3SRV1-03	Overvoltage Undervoltage Phase loss	1.05 ... 1.30	0.1 ... 10 s		220 V	RV1-03/N220	36753						
					230 V	RV1-03/N230	36754						
					240 V	RV1-03/N240	36755						
					380 V	RV1-03/A380	36756						
					400 V	RV1-03/A400	36757						
	PTC temperature					415 V	RV1-03/A415	36758					
						380 V	RV1-03P/A380	36759					
						400 V	RV1-03P/A400	36760					
						415 V	RV1-03P/A415	36761					
						Load side					380 V	RV1-03F/A380	36762
											400 V	RV1-03F/A400	36763
3SRV1-04	Overvoltage Undervoltage Phase sequence Phase loss	1.05 ... 1.30	0.1 ... 10 s		220 V	RV1-04/N220	36765						
					230 V	RV1-04/N230	36766						
					240 V	RV1-04/N240	36767						
					380 V	RV1-04/A380	36768						
					400 V	RV1-04/A400	36769						
	PTC temperature					415 V	RV1-04/A415	36770					
						380 V	RV1-04P/A380	36771					
						400 V	RV1-04P/A400	36772					
						415 V	RV1-04P/A415	36773					
						Load side					380 V	RV1-04F/A380	36774
											400 V	RV1-04F/A400	36775
3SRV1-05	Overvoltage Undervoltage Unbalance Phase loss	1.05 ... 1.30	0.1 ... 10 s		220 V	RV1-05/N220	36777						
					230 V	RV1-05/N230	36778						
					240 V	RV1-05/N240	36779						
					380 V	RV1-05/A380	36780						
					400 V	RV1-05/A400	36781						
	PTC temperature					415 V	RV1-05/A415	36782					
						380 V	RV1-05P/A380	36783					
						400 V	RV1-05P/A400	36784					
						415 V	RV1-05P/A415	36785					
						Load side					380 V	RV1-05F/A380	36786
											400 V	RV1-05F/A400	36787
3SRV1-06	Overvoltage Undervoltage Unbalance Phase sequence Phase loss	1.05 ... 1.30	0.1 ... 10 s		220 V	RV1-06/N220	36789						
					230 V	RV1-06/N230	36790						
					240 V	RV1-06/N240	36791						
					380 V	RV1-06/A380	36792						
					400 V	RV1-06/A400	36793						
	PTC temperature					415 V	RV1-06/A415	36794					
						380 V	RV1-06P/A380	36795					
						400 V	RV1-06P/A400	36796					
						415 V	RV1-06P/A415	36797					
						Load side					380 V	RV1-06F/A380	36798
											400 V	RV1-06F/A400	36799
					415 V	RV1-06F/A415	36800						

Voltage Protection Relay

Series 3SRV1

Selection and ordering data

Model	Monitoring function			Extended	Rated supply voltage	Type code	Order code						
	Basic	Voltage setting range	Time delay setting range										
3SRV1-07	Overvoltage Undervoltage Unbalance Phase loss	1.05 ... 1.30 0.70 ... 0.95 5% ... 15%	0.1 ... 10 s 0.1 ... 10 s 0.1 ... 10 s		220 V	RV1-07/N220	36801						
					230 V	RV1-07/N230	36802						
					240 V	RV1-07/N240	36803						
					380 V	RV1-07/A380	36804						
					400 V	RV1-07/A400	36805						
					415 V	RV1-07/A415	36806						
	PTC temperature					380 V	RV1-07P/A380	36807					
						400 V	RV1-07P/A400	36808					
						415 V	RV1-07P/A415	36809					
						Load side					380 V	RV1-07F/A380	36810
											400 V	RV1-07F/A400	36811
											415 V	RV1-07F/A415	36812
	3SRV1-08	Overvoltage Undervoltage Unbalance Phase sequence Phase loss	1.05 ... 1.30 0.70 ... 0.95 5% ... 15%	0.1 ... 10 s 0.1 ... 10 s 0.1 ... 10 s		220 V	RV1-08/N220	36813					
						230 V	RV1-08/N230	36814					
						240 V	RV1-08/N240	36815					
380 V						RV1-08/A380	36816						
400 V						RV1-08/A400	36817						
415 V						RV1-08/A415	36818						
PTC temperature						380 V	RV1-08P/A380	36819					
						400 V	RV1-08P/A400	36820					
						415 V	RV1-08P/A415	36821					
						Load side					380 V	RV1-08F/A380	36822
											400 V	RV1-08F/A400	36823
											415 V	RV1-08F/A415	36824
3SRV1-09		Overvoltage Undervoltage Unbalance Phase loss	1.05 ... 1.30 0.70 ... 0.95 8%	2 s 2 s 2 s		220 V	RV1-09/N220	36825					
						230 V	RV1-09/N230	36826					
						240 V	RV1-09/N240	36827					
	380 V					RV1-09/A380	36828						
	400 V					RV1-09/A400	36829						
	415 V					RV1-09/A415	36830						
	PTC temperature					380 V	RV1-09P/A380	36831					
						400 V	RV1-09P/A400	36832					
						415 V	RV1-09P/A415	36833					
						Load side					380 V	RV1-09F/A380	36834
											400 V	RV1-09F/A400	36835
											415 V	RV1-09F/A415	36836
	Reset/Test button					380 V	RV1-09RT/A380	36837					
						400 V	RV1-09RT/A400	36838					
						415 V	RV1-09RT/A415	36839					
3SRV1-10	Overvoltage Undervoltage Unbalance Phase sequence Phase loss	1.05 ... 1.30 0.70 ... 0.95 8%	2 s 2 s 2 s		220 V	RV1-10/N220	36840						
					230 V	RV1-10/N230	36841						
					240 V	RV1-10/N240	36842						
					380 V	RV1-10/A380	36843						
					400 V	RV1-10/A400	36844						
					415 V	RV1-10/A415	36845						
	PTC temperature					380 V	RV1-10P/A380	36846					
						400 V	RV1-10P/A400	36847					
						415 V	RV1-10P/A415	36848					
						Load side					380 V	RV1-10F/A380	36849
											400 V	RV1-10F/A400	36850
											415 V	RV1-10F/A415	36851
	Reset/Test button					380 V	RV1-10RT/A380	36852					
						400 V	RV1-10RT/A400	36853					
						415 V	RV1-10RT/A415	36854					

Voltage Protection Relay

Series 3SRV1

Selection and ordering data

Model	Monitoring function			Rated supply voltage	Type code	Order code		
	Basic	Voltage setting range	Time delay setting range					
3SRV1-11	Overvoltage	1.15 ... 2s	2 s	220 V	RV1-11/N220	36855		
				230 V	RV1-11/N230	36856		
				240 V	RV1-11/N240	36857		
				380 V	RV1-11/A380	36858		
	Undervoltage	0.85 ... 2s	2s	400 V	RV1-11/A400	36859		
				415 V	RV1-11/A415	36860		
				PTC temperature	380 V	RV1-11P/A380	36861	
	Unbalance	5% ... 15%	0.1 ... 10 s	400 V	RV1-11P/A400	36862		
				415 V	RV1-11P/A415	36863		
				Load side	380 V	RV1-11F/A380	36864	
	Phase loss			400 V	RV1-11F/A400	36865		
				415 V	RV1-11RTF/A415	36866		
				Reset/Test button	380 V	RV1-11RT/A380	36867	
				400 V	RV1-11RT/A400	36868		
				415 V	RV1-11RT/A415	36869		
				3SRV1-12	Overvoltage	1.5	2 s	220 V
	Undervoltage	0.85	2 s	230 V	RV1-12/N230	36871		
	Unbalance	5% ... 15%	0.1 ... 10 s	240 V	RV1-12/N240	36872		
Phase sequence			380 V	RV1-12/A380	36873			
Phase loss			400 V	RV1-12/A400	36874			
			415 V	RV1-12/A415	36875			
3SRV1-12	PTC temperature			380 V	RV1-12P/A380	36876		
				400 V	RV1-12P/A400	36877		
				415 V	RV1-12P/A415	36878		
	Load side			380 V	RV1-12F/A380	36879		
				400 V	RV1-12F/A400	36880		
				415 V	RV1-12F/A415	36881		
	Reset/Test button			380 V	RV1-12RT/A380	36882		
				400 V	RV1-12RT/A400	36883		
				415 V	RV1-12RT/A415	36884		
	3SRV1-13	Overvoltage	1.15	2 s	220 V	RV1-13/N220	36885	
	Undervoltage	0.85	2 s	230 V	RV1-13/N230	36886		
	Unbalance	8%	2 s	240 V	RV1-13/N240	36887		
Phase loss			380 V	RV1-13/A380	36888			
			400 V	RV1-13/A400	36889			
			415 V	RV1-13/A415	36890			
			PTC temperature	380 V	RV1-13P/A380	36891		
			400 V	RV1-13P/A400	36892			
			415 V	RV1-13P/A415	36893			
Load side			380 V	RV1-13F/A380	36894			
			400 V	RV1-13F/A400	36895			
			415 V	RV1-13F/A415	36896			
			Reset/Test button	380 V	RV1-13RT/A380	36897		
			400 V	RV1-13RT/A400	36898			
			415 V	RV1-13RT/A415	36899			
3SRV1-14	Overvoltage	1.15	2 s	220 V	RV1-14/N220	36900		
Undervoltage	0.85	2 s	230 V	RV1-14/N230	36901			
Unbalance	8%	2 s	240 V	RV1-14/N240	36902			
Phase sequence			380 V	RV1-14/A380	36903			
			400 V	RV1-14/A400	36904			
Phase loss			415 V	RV1-14/A415	36905			
			PTC temperature	380 V	RV1-14P/A380	36906		
			400 V	RV1-14P/A400	36907			
			415 V	RV1-14P/A415	36908			
			Load side			380 V	RV1-14F/A380	36909
						400 V	RV1-14F/A400	36910
						415 V	RV1-14F/A415	36911
			Reset/Test button			380 V	RV1-14RT/A380	36912
						400 V	RV1-14RT/A400	36913
						415 V	RV1-14RT/A415	36914

Voltage Protection Relay

Series 3SRV1

Selection and ordering data

Model	Monitoring function			Rated supply voltage	Type code	Order code	
	Basic	Voltage setting range	Time delay setting range				Extended
3SRV1-15	Overvoltage	1.15	2 s	220 V	RV1-15/N220	36915	
	Undervoltage	0.85	2s	230 V	RV1-15/N230	36916	
	Phase loss				240 V	RV1-15/N240	36917
					380 V	RV1-15/A380	36918
					400 V	RV1-15/A400	36919
					415 V	RV1-15/A415	36920
3SRV1-16	Overvoltage	1.5	2 s	220 V	RV1-16/N220	36921	
	Undervoltage	0.85	2 s	230 V	RV1-16/N230	36922	
	Phase sequence			240 V	RV1-16/N240	36923	
	Phase loss				380 V	RV1-16/A380	36924
					400 V	RV1-16/A400	36925
					415 V	RV1-16/A415	36926
3SRV1-17	Undervoltage	5% ... 15%	0.1 ... 10 s	220 V	RV1-17/N220	36927	
	Phase sequence			230 V	RV1-17/N230	36928	
	Phase loss				240 V	RV1-17/N240	36929
					380 V	RV1-17/A380	36930
					400 V	RV1-17/A400	36931
					415 V	RV1-17/A415	36932
3SRV1-18	Phase sequence			220 V	RV1-18/N220	36933	
	Phase loss			230 V	RV1-18/N230	36934	
				240 V	RV1-18/N240	36935	
				380 V	RV1-18/A380	36936	
				400 V	RV1-18/A400	36937	
				415 V	RV1-18/A415	36938	
3SRV1-19	Undervoltage	8%	2 s	220 V	RV1-19/N220	36939	
	Phase sequence			230 V	RV1-19/N230	36940	
	Phase loss				240 V	RV1-19/N240	36941
					380 V	RV1-19/A380	36942
					400 V	RV1-19/A400	36943
					415 V	RV1-19/A415	36944

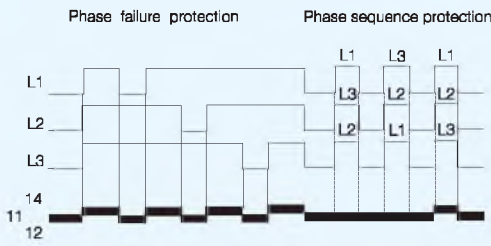
Voltage Protection Relay

Series 3SRV1

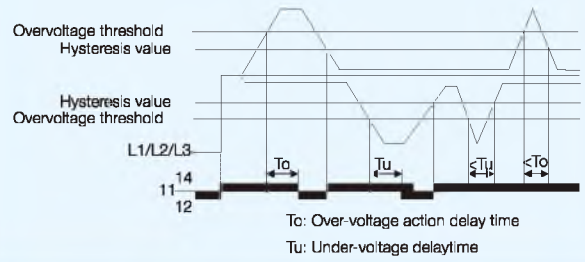
Work sequence diagram

4

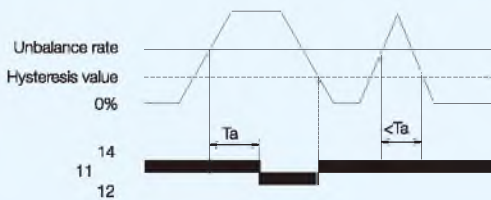
Phase failure and phase sequence protection



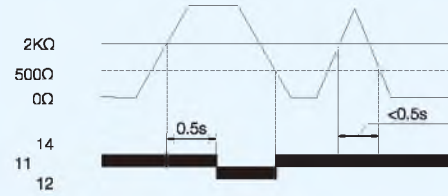
Over-voltage and under-voltage protection



Unbalance protection function chart

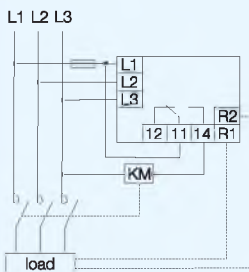


PTC temperature protection function chart

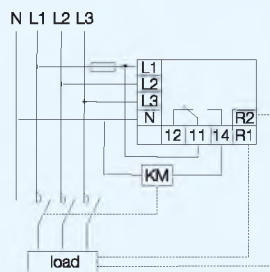


Wiring diagram

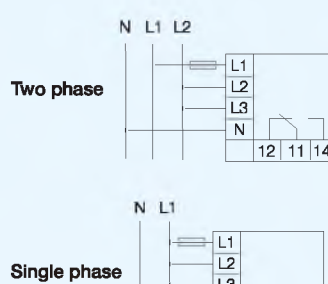
3 phase 3 wire (PTC protection)



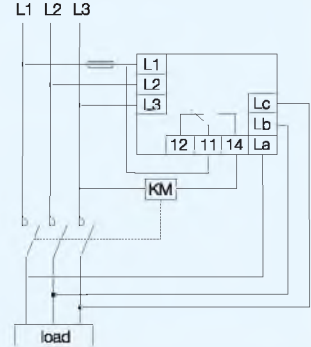
3 phase 4 wire (PTC protection)



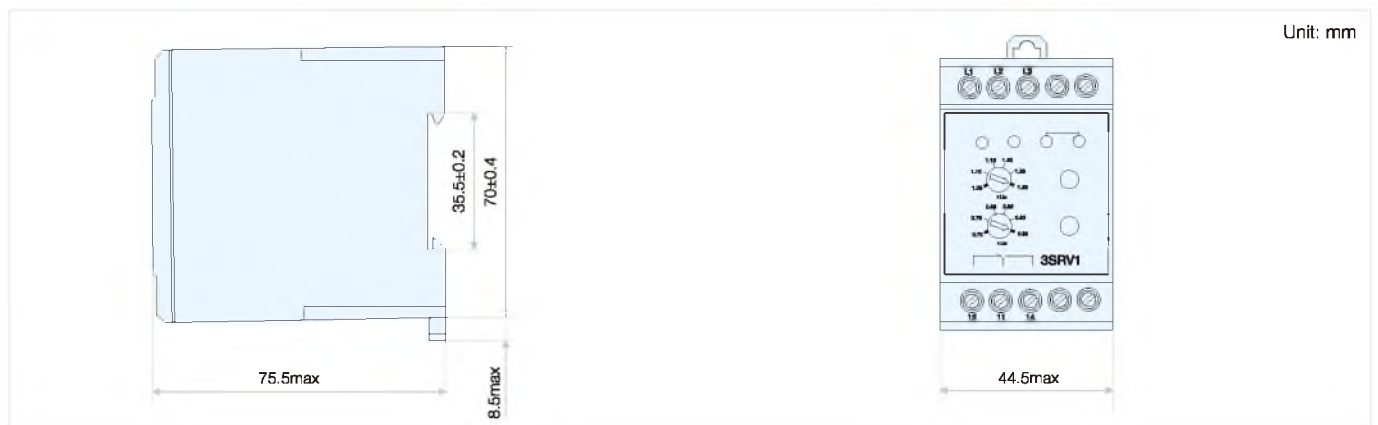
Single phase and Two phase



3 phase 3 wire (Load side protection)



Outline and installation dimensions



Unit: mm

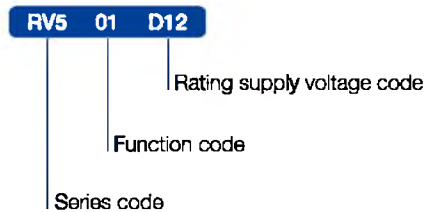
Voltage Protection Relay

Series 3SRV5

Applications and functions

- Phase failure protection and phase sequence protection
- Over-voltage and under-voltage protection
- Three phase unbalance protection
- Widely used in industry control system, power compensation system, air conditioning system, Motor control system.

Instruction of type code



Features

- Micro processor base
- With high reliability and high anti- interference ability.
- Modular design, 18 mm in width.
- TRMS measurement, with accuracy $\leq 1\%$. AC/DC purpose;
- Wide range of frequency measuring of 45Hz~65Hz in AC circuit LED indication.
- Communicating function is available by using Modbus communicating module

Technical specifications

		Single phase	Three phase
Rated supply voltage	DC	12 V	-
	DC/AC	24 ... 48 V	-
		110 ... 240 V	-
Supply voltage limit	AC	220 V	220 ... 460 V
	DC	7 ... 20 V	-
		DC/AC	15 ... 100 V
Voltage range	AC	50 ... 270 V	-
	DC	180 ... 270 V	187 ... 529 V
		DC/AC	9 ... 15 V
Rated supply frequency	AC	20 ... 80 V	-
	DC	65 ... 260 V	-
		AC	180 ... 260 V
Measure range	DC	0	-
Phase failure sensitivity	AC	50/60 Hz $\pm 10\%$	50/60 Hz $\pm 10\%$
Measurement error	AC	-	176 ... 552 V
Run up delay at power up		-	0.7 Un
Knob setting accuracy		< 1% over the full range with voltage variation	
Reset delay		0.5 s	
Rated insulation voltage		0.01	
Pollution degree		1000 ms	
Protection degree		460 V	
Electric life		3	
Mechanical life		IP20	
Conditional thermal current		100,000 cycles	
Utilization category		1,000,000 cycles	
Contact capacity		5 A	
Output type		AC-15	
Altitude		Ue/Ie: 250 V / 1.5 A	
Operation temperature		1 C/O	
Relative humidity		≤ 2000 meter	
Storage temperature		-5 ... +40 °C	
Connection capacity		$\leq 50\%$ at 40 °C	
Tightening torque		-25 ... +75 °C	
Mounting		0.5 ... 2.5 mm ²	
		0.5 Nm	
		on 35 mm DIN rail conforming to EN/IEC 60715	



Voltage Protection Relay

Series 3SRV5

Technical specifications

Monitoring function		Single phase	Three phase										
Function	Setting range	3SRV5-01	3SRV5-02	3SRV5-03	3SRV5-04	3SRV5-05	3SRV5-06	3SRV5-07	3SRV5-08	3SRV5-09	3SRV5-10	3SRV5-11	3SRV5-12
Overvoltage	2% ... 20%	'adj				●		●	●	●	●		
	3%		●										
	15%												●
Undervoltage	-20% ... -2%						●	●	●	●	●		
	-3%		●										
	-15%												●
Unbalance	5% ... 15%				●						●		
	8%									●		●	●
Time delay	0.1 ... 10 s	●			●	●	●	●	●	●			
	2 s										●	●	●
Phase sequence				●	●				●	●	●	●	●
Phase loss				●	●	●	●	●	●	●	●	●	●


Note

adj: Overvoltage or undervoltage is adjustable, the voltage setting range is 5% ... 20%.


Voltage Protection Relay Series 3SRV5

Selection and ordering data

Singe phase

	Model	Over voltage	Under voltage	Rated voltage	Type code	Order code
	3SRV5-01	Adjustable		DC 12V	RV5-01/D12	37666
				AC/DC 24V-48V	RV5-01/AD48	37667
				AC/DC 110V-240V	RV5-01/AD240	37668
	3SRV5-02			DC 12V	RV5-02/D12	37674
				AC/DC 24V-48V	RV5-02/AD48	37675
				AC/DC 110V-240V	RV5-02/AD240	37676
			AC 220V	RV5-02/A220	37677	

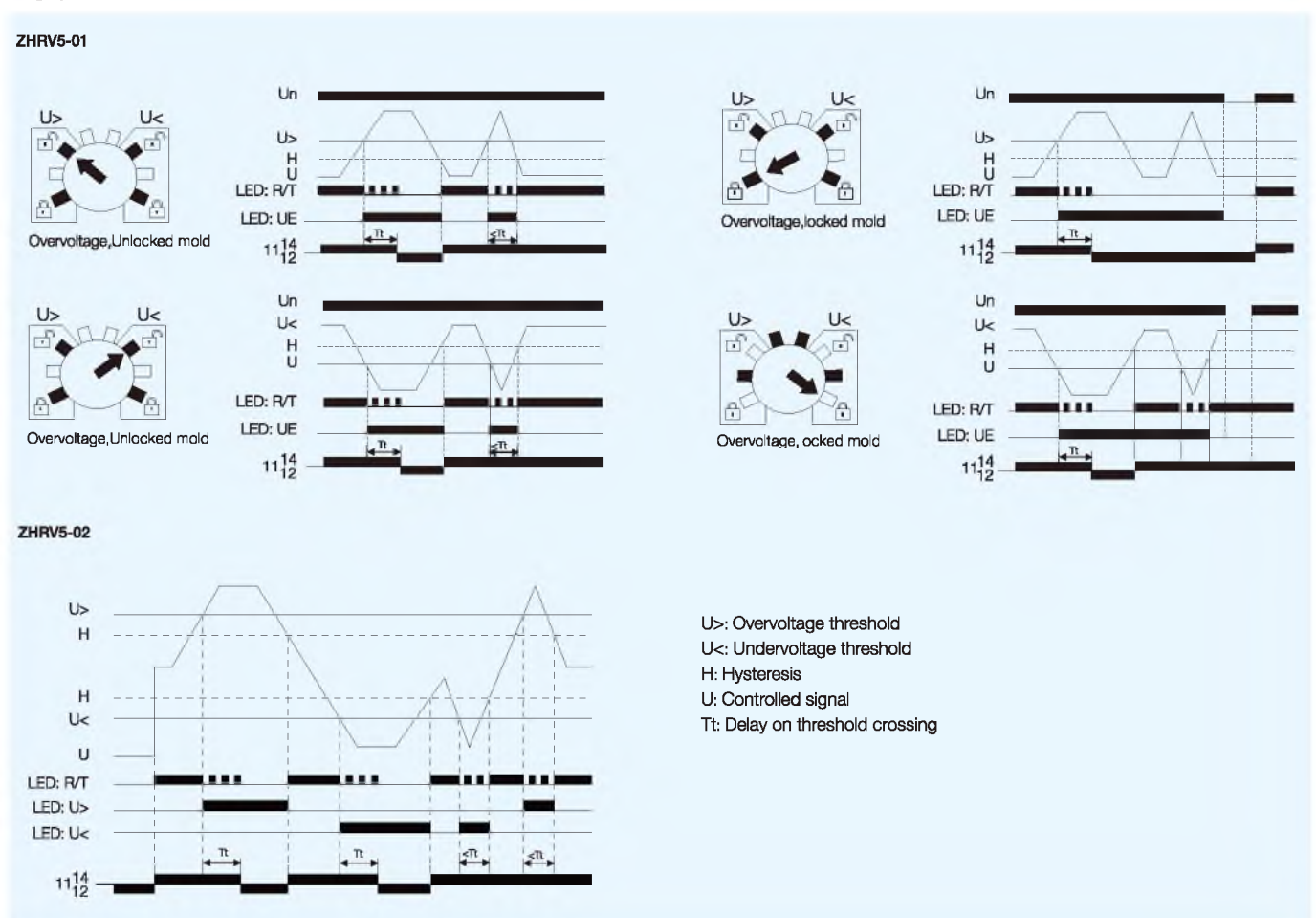
Three phase

	Model	Rated voltage	Type code	Order code
	3SRV5-03	AC 3 × 220V-3 × 460V	RV5-03/M460	37678
	3SRV5-04	AC 3 × 220V-3 × 460V	RV5-04/M460	37679
	3SRV5-05	AC 3 × 220V-3 × 460V	RV5-05/M460	37680
	3SRV5-06	AC 3 × 220V-3 × 460V	RV5-06/M460	37681
	3SRV5-07	AC 3 × 220V-3 × 460V	RV5-07/M460	37682
	3SRV5-08	AC 3 × 220V-3 × 460V	RV5-08/M460	37683
	3SRV5-09	AC 3 × 220V-3 × 460V	RV5-09/M460	37684
	3SRV5-10	AC 3 × 220V-3 × 460V	RV5-10/M460	37685
	3SRV5-11	AC 3 × 220V-3 × 460V	RV5-11/M460	37686
	3SRV5-12	AC 3 × 220V-3 × 460V	RV5-12/M460	37687

Note:
Please see functions in technical specifications in page 41

Work sequence diagram

Singe phase

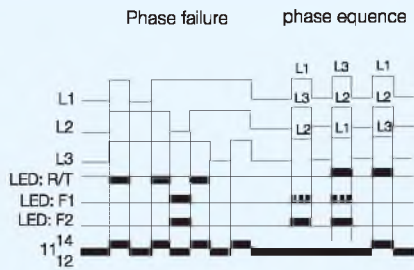


Voltage Protection Relay Series 3SRV5

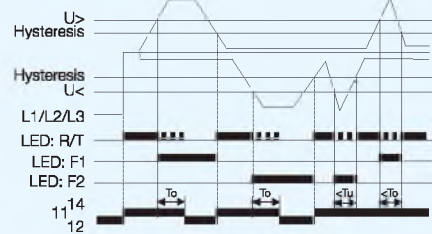
Work sequence diagram

Three phase

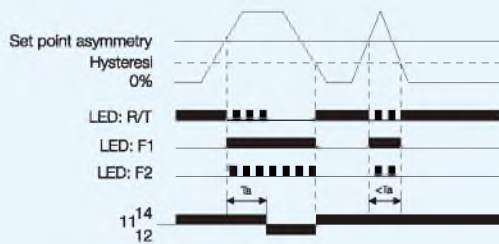
Phase failure and phase sequence function diagram



Overvoltage and undervoltage function diagram



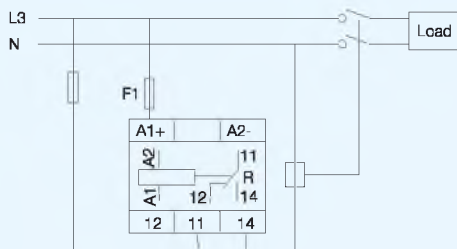
Asymmetry function diagram



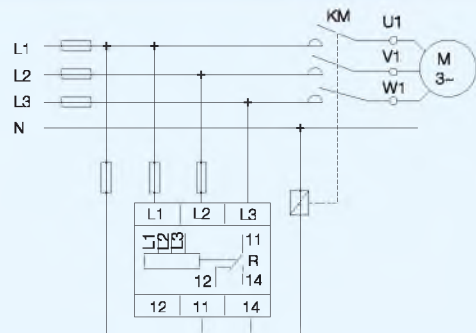
To: Overvoltage threshold tripping delay
Tu: Undervoltage threshold tripping delay
Ta: Asymmetry threshold tripping delay

Wiring diagram

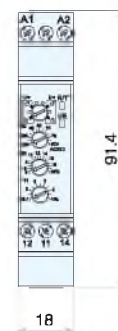
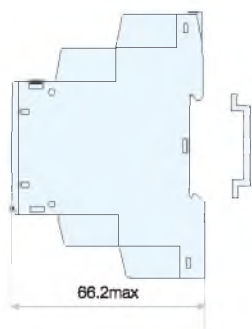
Single phase



Three phase



Outline and installation dimensions



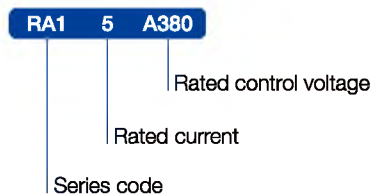
Unit: mm

Motor Protector Series 3SRA1

Applications and functions

- Upgraded relay to protect motor
- Overload, phase failure, protection phase, unbalance protection
- Used in Industry control system

Instruction of type code



Features

- Microprocessor based
- Overload, phase failure, rotor-locked, unbalance protection
- Current setting by potentiometer
- Tripping class selectable
- LED indication for three phase current,
- Can be started without load

Technical specifications

Rated control supply voltage	AC 220 V, AC 380 V					
Current setting range	1 ... 5 A	2 ... 10 A	6 ... 30 A	16 ... 80 A	40 ... 200 A	80 ... 400 A
Applicable motor power	0.5 ... 2.5 kW	1 ... 5 kW	3 ... 15 kW	8 ... 40 kW	20 ... 100 kW	40 ... 200 kW
Rated frequency	50 Hz					
Current setting accuracy	± 5%					
Rated operating voltage	AC 380 V					
Rated insulation voltage	AC 690 V					
Power consumption	≤ 1.5 VA					
Reset mode	Reset upon power off					
Quantity of contact						
Electrical life	100,000 cycles					
Mechanical life	1,000,000 cycles					
Conventional thermal current	5 A					
Utilization category	AC-15					
Contact capacity	Ue/Ie: AC 240 V / 1.5 A, AC 380 V / 0.95 A					
Altitude	2000 meter					
Degree of protection	IP20					
Pollution degree	3					
Operation temperature	-5 ... +40 °C					
Relative humidity	≤ 50% at 40 °C					
Storage temperature	-25 ... +75 °C					

Selection and ordering data

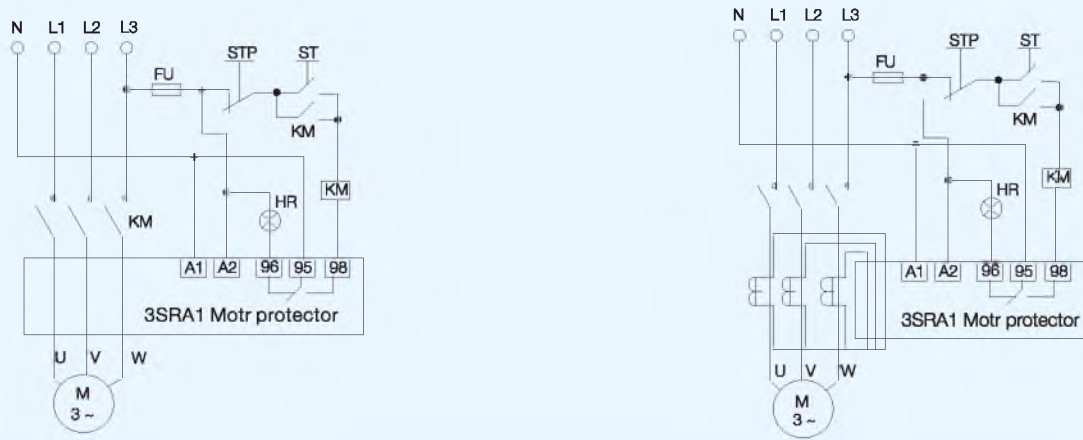
3SRA1	Number of poles	Rated voltage	Rated current range	Rated power range	Type code	Order code
	3P	380V	1-5 A	0.75-2.2 KW	RA1-5/A380	37817
			2-10 A	1.1-3.7 KW	RA1-10/A380	37818
			6-30 A	3.7-15 KW	RA1-30/A380	37819
			16-80 A	11-37 KW	RA1-80/A380	37820
			40-200 A	22-90 KW	RA1-200/A380	37821
			80-400 A	45-200 KW	RA1-400/A380	37822

Motor Protector

Series 3SRA1

Wiring diagram

4

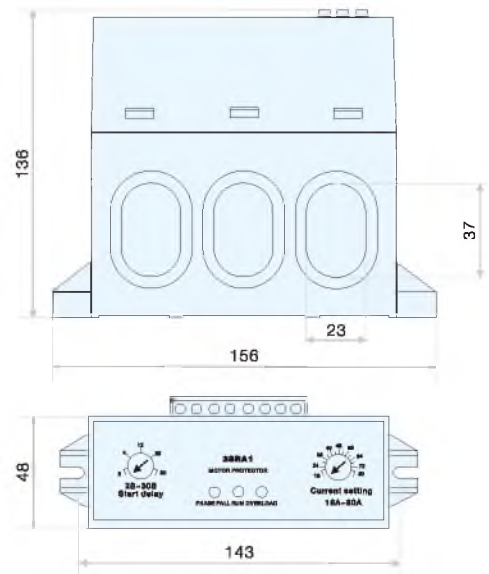
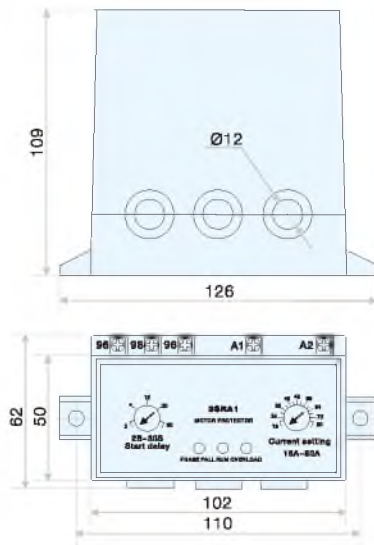


Outline and installation dimensions

1...5A, 2...10A, 5...30A, 16...80A

40...200A, 80...400A

Unit: mm



Technical specifications

- Standard: IEC 60050-445
- Accuracy (class):
 - Repeat error: 1%~2% max
 - Setting error: 5%~10% max
 - voltage error: 1%~5% max
 - temp. Error: 2% max
- Rated Voltage (V DC/AC): 12~240
- Indicator Operation:
 - ON,UP Operation;Time Operation flicker
- O/P contact capacity (A): 5
- Mechanical life (times): 10⁶
- Electrical life (times): 10⁵
- Reset time: 0.1-0.5 second max
- Self-consumed power (VA): 2
- Ambient temperature (°C): -10~+55
- Ambient humidity: 35~85% RH



Selection and ordering data

	Full timing range	Rated voltage (V)	3SST3PA		3SST3PC		
			Type code	Order code	Type code	Order code	
3SST3P (ON-UP operation) Matched socket: ● Surface:3SPF-083A (see page 53-55) ● Flush:US-08, 3SP3G-08 ● Time-range gears:Four	0.05-0.5s/5s/30s/3min	DC24V	ST3PA AD24	34359	ST3PC AD24	34380	
		AC110V	ST3PA AA110	34360	ST3PC AA110	34381	
	0.1-10s/60s/6min	DC24V	ST3PA BD24	34362	ST3PC BD24	34383	
		AC110V	ST3PA BA110	34363	ST3PC BA110	34384	
	0.05-5s/50s/5min/30min	DC24V	ST3PA CD24	34365	ST3PC CD24	34386	
		AC110V	ST3PA CA110	34366	ST3PC CA110	34387	
	1-10s/100s/10min/60min	DC24V	ST3PA DD24	34368	ST3PC DD24	34389	
		AC110V	ST3PA DA110	34369	ST3PC DA110	34390	
	5-60s/10min/60min/6h	DC24V	ST3PA ED24	34371	ST3PC ED24	34392	
		AC110V	ST3PA EA110	34372	ST3PC EA110	34393	
	0.25-2min/20min/2h/12h	DC24V	ST3PA FD24	34374	ST3PC FD24	34395	
		AC110V	ST3PA FA110	34375	ST3PC FA110	34396	
	0.5-4min/40min/4h/24h	DC24V	ST3PA GD24	34377	ST3PC GD24	34398	
		AC110V	ST3PA GA110	34378	ST3PC GA110	34399	
			AC220V	ST3PA GA220	34379	ST3PC GA220	34400



	Full timing range	Rated voltage (V)	3SH3BA		3SH3BA-8		3SH3BA-8H	
			Type code	Order code	Type code	Order code	Type code	Order code
3SH3BA (time operation flicker) ● Matched socket: ● Surface: 3SPF113A (E) 3SP2CF-08, 3SPS-08 (see page 53-55) ● Flush: US-11, US-08, 3SP3G-08 (see page 53-55) ● Time-range gears: Single	0.5s-100h	DC12V	H3BA D12	34401	H3BA8 D12	34405	H3BA8H D12	34409
		DC24V	H3BA D24	34402	H3BA8 D24	34406	H3BA8H D24	34410
		AC110V	H3BA A110	34403	H3BA8 A110	34407	H3BA8H A110	34411
		AC220V	H3BA A220	34404	H3BA8 A220	34408	H3BA8H A220	34412



Multi Range Time Relays

Selection and ordering data

4



- 3SH3CT (ON-UP operation)**
 Matched socket:
 ● Surface: 3SPF083A (E) (see page 53-55)
 ● Flush: US-08, 3SP3G-08 (see page 53-55)

	Rated Voltage (V)	Calibration	Type code	Order code
	AC 220	1S	H3CT 1SA220	34601
	AC 110	1S	H3CT 1SA110	34602
	DC 24	1S	H3CT 1SD24	34603
	AC 220	10S	H3CT 10SA220	34604
	AC 110	10S	H3CT 10SA110	34605
	DC 24	10S	H3CT 10SD24	34606
	AC 220	1M	H3CT 1MA220	34607
	AC 110	1M	H3CT 1MA110	34608
	DC 24	1M	H3CT 1MD24	34609
	AC 220	10M	H3CT 10MA220	34610
	AC 110	10M	H3CT 10MA110	34611
	DC 24	10M	H3CT 10MD24	34612



- 3SH3CT-8H (time operation flicker)**
 Matched socket:
 ● Surface: 3SPF083A (E) (see page 53-55)
 ● Flush: US-08, 3SP3G-08 (see page 53-55)
 ● Time-range gears: Four

	Rated Voltage (V)	Full timing range	Type code	Order code
	DC 12	1S,10S,1M,10M	H3CT8HA D12	34613
	DC 24	1S,10S,1M,10M	H3CT8HA D24	34614
	AC 110	1S,10S,1M,10M	H3CT8HA A110	34615
	AC 220	1S,10S,1M,10M	H3CT8HA A220	34616
	DC 12	3S,30S,3M,30M	H3CT8HB D12	34617
	DC 24	3S,30S,3M,30M	H3CT8HB D24	34618
	AC 110	3S,30S,3M,30M	H3CT8HB A110	34619
	AC 220	3S,30S,3M,30M	H3CT8HB A220	34620
	DC 12	6S,60S,6M,60M	H3CT8HC D12	34621
	DC 24	6S,60S,6M,60M	H3CT8HC D24	34622
	AC 110	6S,60S,6M,60M	H3CT8HC A110	34623
	AC 220	6S,60S,6M,60M	H3CT8HC A220	34624
	DC 12	1M,10M,1H,10H	H3CT8HD D12	34625
	DC 24	1M,10M,1H,10H	H3CT8HD D24	34626
	AC 110	1M,10M,1H,10H	H3CT8HD A110	34627
	AC 220	1M,10M,1H,10H	H3CT8HD A220	34628
	DC 12	3M,30M,3H,30H	H3CT8HE D12	34629
	DC 24	3M,30M,3H,30H	H3CT8HE D24	34630
	AC 110	3M,30M,3H,30H	H3CT8HE A110	34631
	AC 220	3M,30M,3H,30H	H3CT8HE A220	34632



- 3SH3CT-8 (ON-UP operation)**
 Matched socket:
 ● Surface: 3SPF083A (E) (see page 53-55)
 ● Flush: US-08, 3SP3G-08 (see page 53-55)
 ● Time-range gears: Four

	Rated Voltage (V)	Full timing range	Type code	Order code
	DC 12	1S,10S,1M,10M	H3CT8A D12	34633
	DC 24	1S,10S,1M,10M	H3CT8A D24	34634
	AC 110	1S,10S,1M,10M	H3CT8A A110	34635
	AC 220	1S,10S,1M,10M	H3CT8A A220	34636
	DC 12	3S,30S,3M,30M	H3CT8B D12	34637
	DC 24	3S,30S,3M,30M	H3CT8B D24	34638
	AC 110	3S,30S,3M,30M	H3CT8B A110	34639
	AC 220	3S,30S,3M,30M	H3CT8B A220	34640
	DC 12	6S,60S,6M,60M	H3CT8C D12	34641
	DC 24	6S,60S,6M,60M	H3CT8C D24	34642
	AC 110	6S,60S,6M,60M	H3CT8C A110	34643
	AC 220	6S,60S,6M,60M	H3CT8C A220	34644
	DC 12	1M,10M,1H,10H	H3CT8D D12	34645
	DC 24	1M,10M,1H,10H	H3CT8D D24	34646
	AC 110	1M,10M,1H,10H	H3CT8D A110	34647
	AC 220	1M,10M,1H,10H	H3CT8D A220	34648
	DC 12	3M,30M,3H,30H	H3CT8E D12	34649
	DC 24	3M,30M,3H,30H	H3CT8E D24	34650
	AC 110	3M,30M,3H,30H	H3CT8E A110	34651
	AC 220	3M,30M,3H,30H	H3CT8E A220	34652

Selection and ordering data

	Rated Voltage (V)	Calibration	Type code	Order code
3SH3Y (ON-UP operation)	DC 24	5S	H3Y 5SD24	34653
Matched socket:	DC 24	10S	H3Y 10SD24	34654
● Surface:3SPF083A (E), 3SPYF14A (E) (see page 53-55)	DC 24	30S	H3Y 30SD24	34655
● Flush:With Y-20 adapter	DC 24	60S	H3Y 60SD24	34656
	AC 110	5S	H3Y 5SD110	34657
	AC 110	10S	H3Y 10SD110	34658
	AC 110	30S	H3Y 30SD110	34659
	AC 110	60S	H3Y 60SD110	34660
	AC 220	5S	H3Y 5SD220	34661
	AC 220	10S	H3Y 10SD220	34662
	AC 220	30S	H3Y 30SD220	34663
	AC 220	60S	H3Y 60SD220	34664



Power Relays



Technical specifications

- Standard: IEC 60255-1
- Contact arrangement: 2Z, 3Z, 4Z
- Rated Voltage (V): Max. AC 250, DC125
- Rated Current (A): 3, 5, 10
- Rated power (W): 280 for 2Z, 140 for 3Z, 84 for 4Z
- Holding voltage: 80% Un for AC coil, 75% Un for DC coil
- Drop-out voltage: 30% Un for AC coil, 10% Un for DC coil
- Operating voltage range (Un): (80% -110%)
- Contact material: Silver alloy
- Contact resistance (mΩ): ≥50
- Installation resistance (mΩ): ≥100
- Electrical life (times): 10⁵
- Mechanical life (times): 10⁷
- Ambient temperature (°C): -5--+55



4

Selection and ordering data

	Contact Type	Matched socket	Dimension (mm)	Rated voltage (V)	Accessory	Type code	Order code
	2Z	3SPTF08A, 3SPTF08A (E), 3SPT08 (see page 53-55)	27.5X21.5X35	DC 12V	-	J4L2 D12	34413
				DC 24V	-	J4L2 D24	34414
				AC 110V	-	J4L2 A110	34415
				AC 220V	-	J4L2 A220	34416
				DC 12V	with indicator	J4L2N D12	34417
				DC 24V	with indicator	J4L2N D24	34418
				AC 110V	with indicator	J4L2N A110	34419
				AC 220V	with indicator	J4L2N A220	34420
				DC 12V	with indicator and Test button	J4L2NS D12	34421
				DC 24V	with indicator and Test button	J4L2NS D24	34422
				AC 110V	with indicator and Test button	J4L2NS A110	34423
				AC 220V	with indicator and Test button	J4L2NS A220	34424
					2Z	3SPTF08A, 3SPTF08A (E), 3SPT08 (see page 53-55)	27.5X21.5X35
DC 24V	-	J4M2 D24	34426				
AC 110V	-	J4M2 A110	34427				
AC 220V	-	J4M2 A220	34428				
DC 12V	with indicator	J4M2N D12	34429				
DC 24V	with indicator	J4M2N D24	34430				
AC 110V	with indicator	J4M2N A110	34431				
AC 220V	with indicator	J4M2N A220	34432				
DC 12V	with indicator and Test button	J4M2NS D12	34433				
DC 24V	with indicator and Test button	J4M2NS D24	34434				
AC 110V	with indicator and Test button	J4M2NS A110	34435				
AC 220V	with indicator and Test button	J4M2NS A220	34436				

Selection and ordering data




Contact Type	Matched socket	Dimension (mm)	Rated voltage (V)	Accessory	Type code	Order code
	3SPYF11A (E), (see page 53-55)	27.5X21.5X35	DC 12V	-	J4M3 D12	34437
			DC 24V	-	J4M3 D24	34438
			AC 110V	-	J4M3 A110	34439
			AC 220V	-	J4M3 A220	34440
			DC 12V	with indicator	J4M3N D12	34441
			DC 24V	with indicator	J4M3N D24	34442
			AC 110V	with indicator	J4M3N A110	34443
			AC 220V	with indicator	J4M3N A220	34444
			DC 12V	with indicator and Test button	J4M3NS D12	34445
			DC 24V	with indicator and Test button	J4M3NS D24	34446
			AC 110V	with indicator and Test button	J4M3NS A110	34447
			AC 220V	with indicator and Test button	J4M3NS A220	34448
				3SPYF14A (E), (see page 53-55)	27.5X21.5X35	DC 12V
DC 24V	-	J4M4 D24				34450
AC 110V	-	J4M4 A110				34451
AC 220V	-	J4M4 A220				34452
DC 12V	with indicator	J4M4N D12				34453
DC 24V	with indicator	J4M4N D24				34454
AC 110V	with indicator	J4M4N A110				34455
AC 220V	with indicator	J4M4N A220				34456
DC 12V	with indicator and Test button	J4M4NS D12				34457
DC 24V	with indicator and Test button	J4M4NS D24				34458
AC 110V	with indicator and Test button	J4M4NS A110				34459
AC 220V	with indicator and Test button	J4M4NS A220				34460
	3SPF083A (see page 53-55), 3SPF083A (E), (see page 53-55) 3SUS-08 (see page 53-55)	34.5X34.5X52				DC 12V
			DC 24V	with indicator	J52N D24	34462
			AC 110V	with indicator	J52N A110	34463
			AC 220V	with indicator	J52N A220	34464
			DC 12V	with test button	J52S D12	34465
			DC 24V	with test button	J52S D24	34466
			AC 110V	with test button	J52S A110	34467
			AC 220V	with test button	J52S A220	34468
			DC 12V	with indicator and Test button	J52NS D12	34469
			DC 24V	with indicator and Test button	J52NS D24	34470
			AC 110V	with indicator and Test button	J52NS A110	34471
			AC 220V	with indicator and Test button	J52NS A220	34472
				3SPF113A, (see page 53-55) 3SPF113A (E), (see page 53-55) 3SUS-11 (see page 53-55)	34.5X34.5X52	DC 12V
DC 24V	with indicator	J53N D24				34474
AC 110V	with indicator	J53N A110				34475
AC 220V	with indicator	J53N A220				34476
DC 12V	with test button	J53S D12				34477
DC 24V	with test button	J53S D24				34478
AC 110V	with test button	J53S A110				34479
AC 220V	with test button	J53S A220				34480
DC 12V	with indicator and Test button	J53NS D12				34481
DC 24V	with indicator and Test button	J53NS D24				34482
AC 110V	with indicator and Test button	J53NS A110				34483
AC 220V	with indicator and Test button	J53NS A220				34484

Power Relays


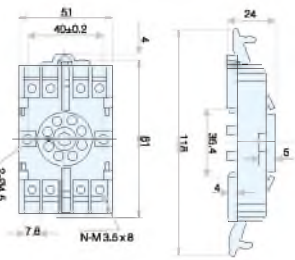
Selection and ordering data

	Contact Type	Matched socket	Dimension (mm)	Rated voltage (V)	Accessory	Type code	Order code
	2Z	3S90.22 (see page 53-55)	37X33X54	DC 12V	-	60.2 D12	34485
				DC 24V	-	60.2 D24	34486
				AC 110V	-	60.2 A110	34487
				AC 220V	-	60.2 A220	34488
	3Z	3S90.23 (see page 53-55)	37X33X59	DC 12V	-	60.3 D12	34489
				DC 24V	-	60.3 D24	34490
				AC 110V	-	60.3 A110	34491
				AC 220V	-	60.3 A220	34492
	2Z	3S90.23 (see page 53-55)	37X33X59	DC 12V	-	70.2 D12	34493
				DC 24V	-	70.2 D24	34494
				AC 110V	-	70.2 A110	34495
				AC 220V	-	70.2 A220	34496
	3Z	3S90.23 (see page 53-55)	37X33X59	DC 12V	-	70.3 D12	34497
				DC 24V	-	70.3 D24	34498
				AC 110V	-	70.3 A110	34499
				AC 220V	-	70.3 A220	34500
	2Z	3SPTT08A, 3SPTT08A (E), 3SPT08, 3SPT08-0	27.5X21X36	DC 12V	-	58.02 D12	34501
				DC 24V	-	58.02 D24	34502
				AC 110V	-	58.02 A110	34503
				AC 220V	-	58.02 A220	34504
	2Z	3SPTT08A, 3SPTT08A (E), 3SPT08, 3SPT08-0	27.5X21X36	DC 12V	-	56.02 D12	34505
				DC 24V	-	56.02 D24	34506
				AC 110V	-	56.02 A110	34507
				AC 220V	-	56.02 A220	34508
	2Z	3SPYF08A, (see page 53-55) 3SPYF08A (E) (see page 53-55)	27.5X21X34	DC 12V	-	55.02 D12	34509
				DC 24V	-	55.02 D24	34510
				AC 110V	-	55.02 A110	34511
				AC 220V	-	55.02 A220	34512


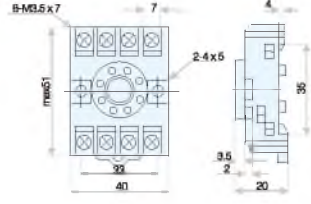
Selection and ordering data

Contact Type	Matched socket	Dimension (mm)	Rated voltage (V)	Accessory	Type code	Order code
 4Z	3SPYF14A, 3SPYF14A (E), 3SPY14, 3SPY14-0 (see page 53-55)	27.5X21X34	DC 12V	-	55.04 D12	34513
			DC 24V	-	55.04 D24	34514
			AC 110V	-	55.04 A110	34515
			AC 220V	-	55.04 A220	34516
 2Z	3SPYF08A, 3SPYF08A (E), 3SPY08, 3SPY08-0 (see page 53-55)	27.5X21X34	DC 12V	-	57.02 D12	34517
			DC 24V	-	57.02 D24	34518
			AC 110V	-	57.02 A110	34519
			AC 220V	-	57.02 A220	34520
 4Z	3SPYF14A, 3SPYF14A (E), 3SPY14, 3SPY14-0 (see page 53-55)	27.5X21X34	DC 12V	-	57.04 D12	34521
			DC 24V	-	57.04 D24	34522
			AC 110V	-	57.04 A110	34523
			AC 220V	-	57.04 A220	34524


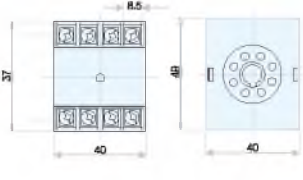
Relay Sockets


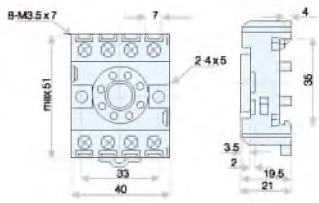
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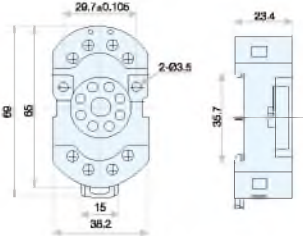
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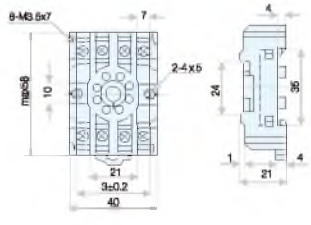
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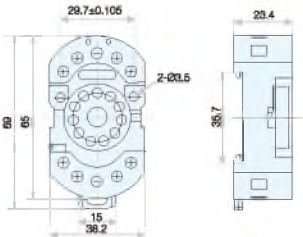
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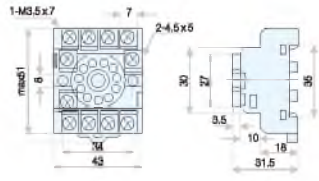
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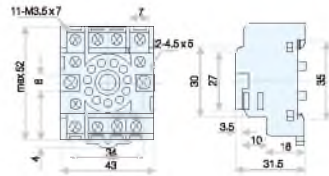
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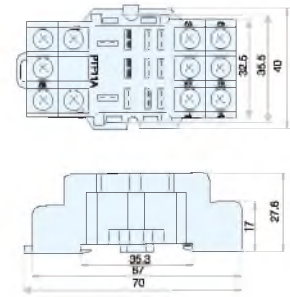
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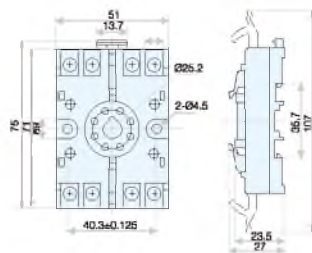
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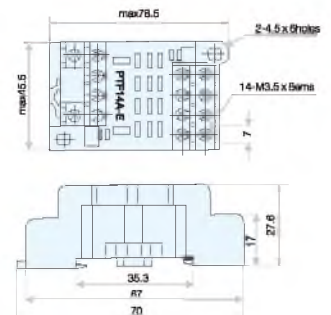
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Type code: 3SPTF11A
Order code: 34534



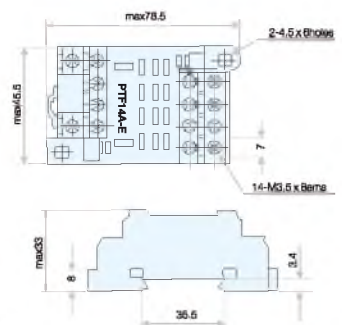
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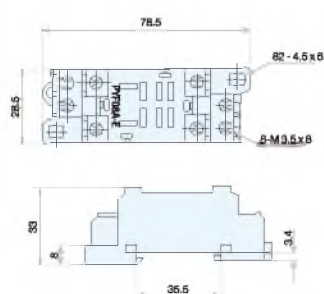
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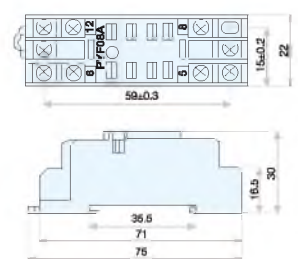
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Order code: 34537



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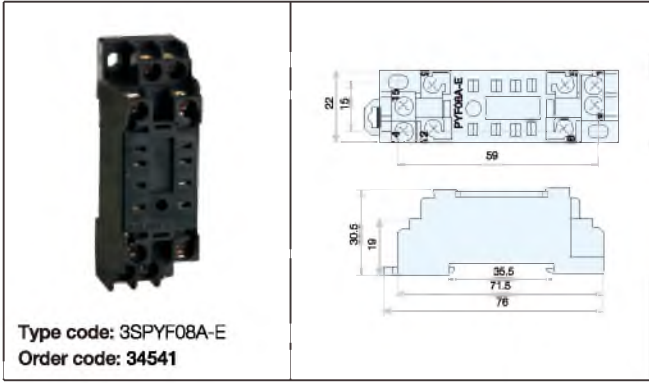


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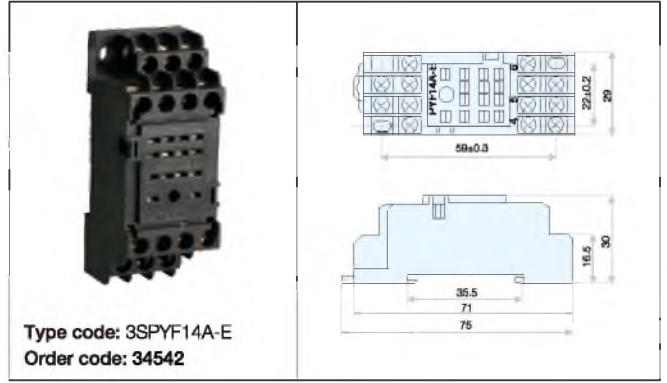


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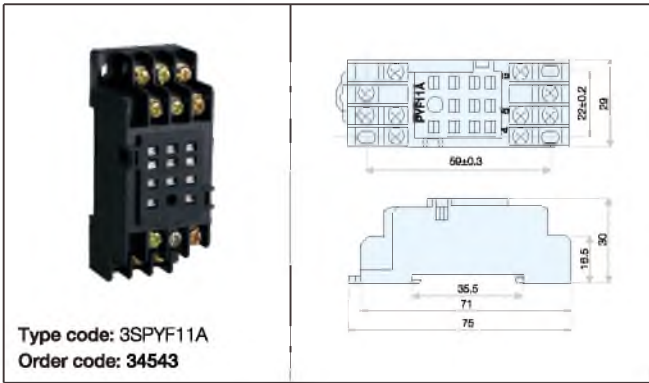
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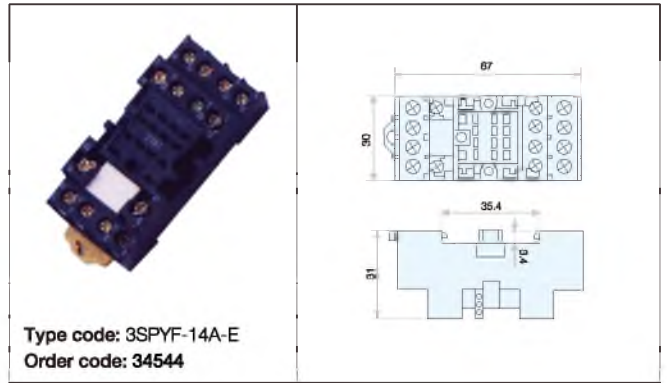
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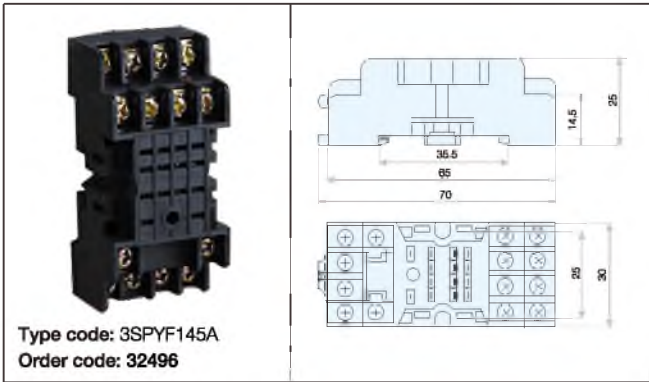
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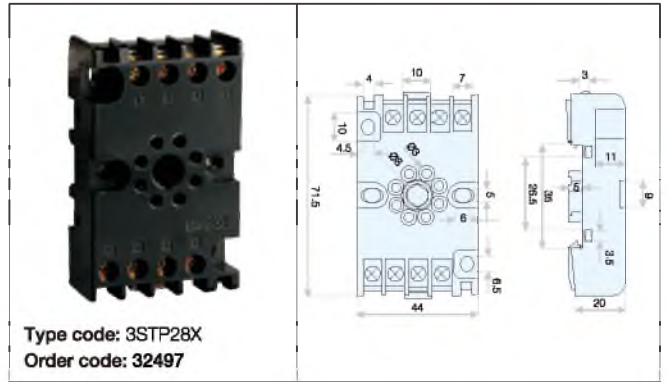
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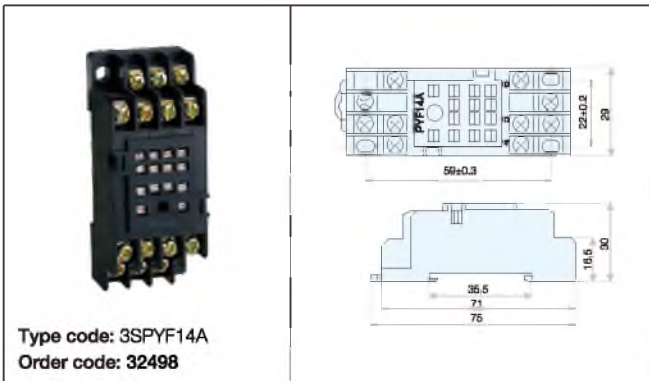
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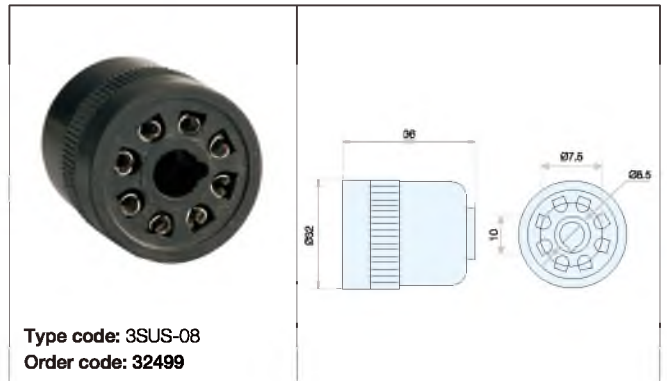
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