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## 3SM18, from 0.1 to 80 A

Independent power supply with build-in power source, directly draws power from the incoming end to avoid the risk of protection function failure caused by supply failure.

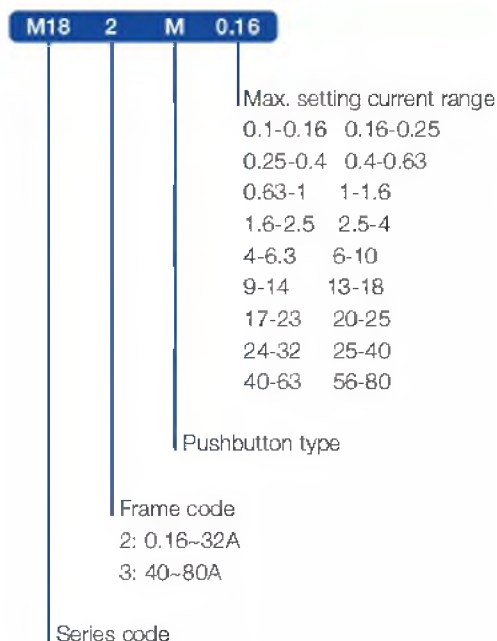
- Overload protection
- Short circuit protection
- Isolation
- Controlling
- Used in residential building, non-residential building, industry, energy and infrastructure



## Applications And Functions

- Providing motor overload protection and short-circuit protection

## Instruction of type code

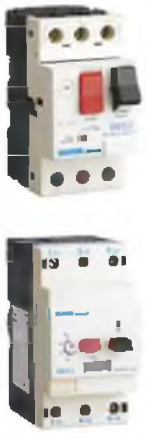


## Technical specifications


Type	3SM18-25-32																	3SM18-63-80
Standards	IEC 60947-2, IEC 60947-4-1																	
Utilization category	according to IEC 60947-2	A																
	according to IEC 60947-4-1	AC-3																
Rated insulation voltage $U_i$ (V)	690																	
Rated operational voltage $U_e$ (V)	230/240, 400/415, 440, 500, 660/690																	
Rated impulse withstand voltage $U_{imp}$ (kA)	8																	
Rated range of setting current (A)	0.1-0.16	0.16-0.25	0.25-0.4	0.4-0.63	0.63-1	1-1.6	1.6-2.5	2.5-4	4-6.3	6-10	9-14	13-18	17-23	20-25	24-32	25-40	40-63	56-80
Rated current of release (A)	0.16	0.25	0.4	0.63	1	1.6	2.5	4	6	10	14	18	23	25	32	40	63	80
Rated frequency (Hz)	50/60																	
Rated ultimate short-circuit breaking capacity $I_{cu}$ (kA)	230/240 V	100	100	100	100	100	100	100	100	100	100	100	100	50	50	100	100	100
	400/415 V	100	100	100	100	100	100	100	100	100	100	100	15	15	15	35	35	35
	440 V	100	100	100	100	100	100	100	100	100	100	8	8	6	6	-	25	25
	500 V	100	100	100	100	100	100	100	100	100	100	6	6	4	4	-	8	8
Rated service short-circuit breaking capacity $I_{cs}$ (kA)	660/690 V	100	100	100	100	100	100	3	3	3	3	3	3	3	-	4	4	4
	230/240 V	100	100	100	100	100	100	100	100	100	100	100	50	50	75	75	75	75
	400/415 V	100	100	100	100	100	100	100	100	100	100	7.5	6	7.5	6	17.5	17.5	17.5
	440 V	100	100	100	100	100	100	100	100	100	100	4	4	3	3	-	12.5	12.5
	500 V	100	100	100	100	100	100	100	100	100	100	4.5	4.5	3	3	-	4	4
Arcing distance (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	50	50	50
Standard rated power of three-phase (kW)	230/240 V	-	-	-	-	-	-	0.37	0.75	1.1	2.2	3	4	5.5	5.5	5.5	11	15
	400 V	-	-	-	-	-	0.37	0.75	1.5	2.2	4	5.5	7.5	11	11	11	18.5	30
	500 V	-	-	-	-	-	0.75	1.5	2.2	4	5.5	9	11	11	11	22	33	45
	440 V	-	-	-	-	0.37	0.55	1.1	1.5	3	4	7.5	9	11	11	-	22	33
	500 V	-	-	-	-	0.37	0.75	1.1	2.2	3.7	5.5	7.5	9	11	11	-	25	40
	660/690 V	-	-	-	0.37	0.55	1.1	1.5	3	4	7.5	9	11	15	15	-	33	55
Current setting value of instantaneous electromagnetic release $I_r$ (A)	1.5	2.4	5	8	13	22.5	33.5	51	78	138	170	223	327	327	327	480	756	960
Current rating off use-link of back-up fuse, which is only needed in case of $I_{cc} > I_{cu}$ ( $I_{cc}$ : prospective short-circuit breaking current)	230/240 V	aM A	●	●	●	●	●	●	●	●	●	●	●	80	80	●	●	●
		gI/gG A	●	●	●	●	●	●	●	●	●	●	●	100	100	●	●	●
	400/415 V	aM A	●	●	●	●	●	●	●	●	●	●	●	63	63	63	63	250
		gI/gG A	●	●	●	●	●	●	●	●	●	●	●	80	80	80	80	315
	440 V	aM A	●	●	●	●	●	●	●	●	●	●	●	50	50	50	50	250
		gI/gG A	●	●	●	●	●	●	●	●	●	●	●	63	63	63	63	400
	500 V	aM A	●	●	●	●	●	●	●	●	●	●	●	50	50	50	50	200
		gI/gG A	●	●	●	●	●	●	●	●	●	●	●	63	63	63	63	250
● Fuse is not required	500 V	aM A	●	●	●	●	●	●	16	25	32	32	40	40	40	40	-	160
		gI/gG A	●	●	●	●	●	●	20	32	40	40	50	50	50	50	-	200
Add-on auxiliary contact blocks	Front mounting	1NO+1NC, 2NO																
	Side mounting	1NO+1NC, 2NO																
Shunt release	●																	
Under voltage release	●																	
Auxiliary alarm	1NO+1NO, 1NO+1NC, 1NC+1NO, 1NC+1NC																	
Enclosure	●																	
Electrical life in AC-3 (times)	10000																	
Mechanical life (times)	20000																	
Tightening torque (N·m)	1.7																	
Degree of protection	IP20; IP65 with enclosure																	
Ambient air temperature (°C)	-5 to +40, max. 95 % humidity																	
Storage temperature (°C)	-40~+75																	
Maximum operating altitude (meters)	2000																	

## Selection and ordering data


3SM18

	Setting range of thermal trips (A)	Rated current of release (A)		
			Type code	Order code
	0.1-0.16	0.16	M18 2M0.16	12730
	0.16-0.25	0.25	M18 2M0.25	12731
	0.25-0.4	0.4	M18 2M0.4	12732
	0.4-0.63	0.63	M18 2M0.63	12733
	0.63-1	1	M18 2M1.0	12734
	1-1.6	1.6	M18 2M1.6	12735
	1.6-2.5	2.5	M18 2M2.5	12736
	2.5-4	4	M18 2M4.0	12737
	4-6.3	6.3	M18 2M6.3	12738
	6-10	10	M18 2M10	12739
	9-14	14	M18 2M14	12740
	13-18	18	M18 2M18	12741
	17-23	23	M18 2M23	12742
	20-25	25	M18 2M25	12743
	24-32	32	M18 2M32	12744
	25-40	40	M18 3/40	12767
	40-63	63	M18 3/63	12768
56-80	80	M18 3/80	12769	


### 3SM18 with enclosure

	Setting range of thermal trips (A)	Rated current of release (A)		
			Type code	Order code
	0.1-0.16	0.16	M18 4M0.16	12770
	0.16-0.25	0.25	M18 4M0.25	12771
	0.25-0.4	0.4	M18 4M0.4	12772
	0.4-0.63	0.63	M18 4M0.63	12773
	0.63-1	1	M18 4M1.0	12774
	1-1.6	1.6	M18 4M1.6	12775
	1.6-2.5	2.5	M18 4M2.5	12776
	2.5-4	4	M18 4M4.0	12777
	4-6.3	6.3	M18 4M6.3	12778
	6-10	10	M18 4M10	12779
	9-14	14	M18 4M14	12780
	13-18	18	M18 4M18	12781
	17-23	23	M18 4M23	12782
	20-25	25	M18 4M25	12783
24-32	32	M18 4M32	12784	

### 3SM18-2-AV Under-voltage release


	Rated operational voltage U <sub>e</sub> (V)	Voltage range of operation	Frequency (HZ)		
				Type code	Order code
	110-127	35%-70% U <sub>e</sub>	50/60	AU115	12790
	220-240	35%-70% U <sub>e</sub>	50/60	AU225	12791
	380-415	35%-70% U <sub>e</sub>	50/60	AU385	12792

### 3SM18-2-AS Shunt release


	Rated operational voltage U <sub>e</sub> (V)	Voltage range of operation	Frequency (HZ)		
				Type code	Order code
	110-127	70%-110% U <sub>e</sub>	50/60	AS115	12793
	220-240	70%-110% U <sub>e</sub>	50/60	AS225	12794
	380-415	70%-110% U <sub>e</sub>	50/60	AS385	12795

## Selection and ordering data

### 3SM18-2-AN11 Auxiliary contact

	Mounting type	Contact position	Conventional thermal current I <sub>th</sub> (A)	Type code	Order code
	Top	1NO+1NC	2.5	AE11	12786
	Top	2NO	2.5	AE20	12787
	Side	1NO+1NC	6	AN11	12788
	Side	2NO	6	AN20	12789

### 3SM18-2-AD Auxiliary Alarm

	Contact position	Conventional thermal current I <sub>th</sub> (A)	Type code	Order code
	1NO+1NO	6	AD1010	12796
	1NO+1NC	6	AD1001	12797
	1NC+1NO	6	AD0110	12798
	1NC+1NC	6	AD0101	12799

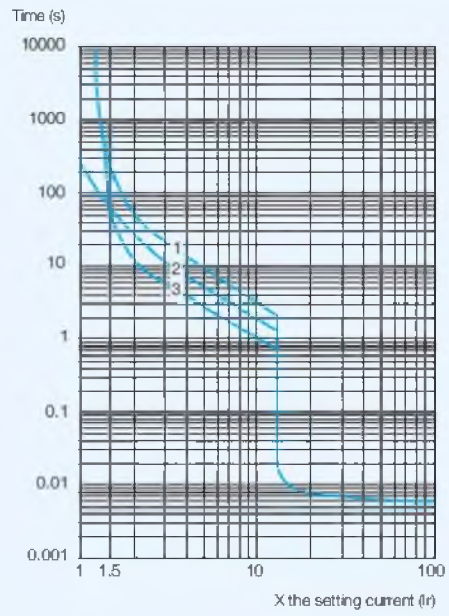
### Enclosure

	Type	Type code	Order code
	3SM18-2B	M18 2B	12785

## Tripping Curve

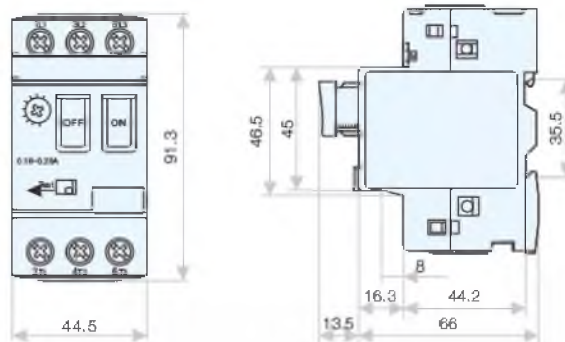
Average operating times at 20 °C related to multiples of the setting current

1: 3 poles from cold state; 2: 2 poles from cold state; 3: 3 poles from hot state



## Outline and installation dimensions

unit in mm



## PMP61, from 0.1 to 80 A

- Providing motor overload protection and short-circuit protection.

### Technical Specifications

Type		PMP612																	PMP613		
Standards		IEC 60947-2, IEC 60947-4-1																			
Utilization category	according to IEC 60947-2	A																			
Utilization category	according to IEC 60947-4-1	AC-3																			
Rated insulation voltage $U_i$ (V)		690																			
Rated operational voltage $U_e$ (V)		230/240, 400/415, 440, 500, 660/690																			
Rated impulse withstand voltage $U_{imp}$ (kA)		8																			
Rated range of setting current (A)		0.1-0.16	0.16-0.25	0.25-0.4	0.4-0.63	0.63-1	1-1.6	1.6-2.5	2.5-4	4-6.3	6-10	9-14	13-18	17-23	20-25	24-32	25-40	40-63	56-80		
Rated current of release (A)		0.16	0.25	0.4	0.63	1	1.6	2.5	4	6	10	14	18	23	25	32	40	63	80		
Rated frequency (Hz)		50/60																			
Rated ultimate short-circuit breaking capacity $I_{cu}$ (kA)	230/240 V	100	100	100	100	100	100	100	100	100	100	100	100	50	50	100	100	100	100		
	400/415 V	100	100	100	100	100	100	100	100	100	100	15	15	15	15	35	35	35	35		
	440 V	100	100	100	100	100	100	100	100	100	100	8	8	6	6	-	25	25	25		
	500 V	100	100	100	100	100	100	100	100	100	100	6	6	4	4	-	8	8	8		
	660/690 V	100	100	100	100	100	100	3	3	3	3	3	3	3	3	-	4	4	4		
Rated service short-circuit breaking capacity $I_{cs}$ (kA)	230/240 V	100	100	100	100	100	100	100	100	100	100	100	100	50	50	75	75	75	75		
	400/415 V	100	100	100	100	100	100	100	100	100	100	7.5	6	7.5	6	17.5	17.5	17.5	17.5		
	440 V	100	100	100	100	100	100	100	100	100	100	4	4	3	3	-	12.5	12.5	12.5		
	500 V	100	100	100	100	100	100	100	100	100	100	4.5	4.5	3	3	-	4	4	4		
	660/690 V	100	100	100	100	100	100	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	-	2	2	2		
Arcing distance (mm)		40	40	40	40	40	40	40	40	40	40	40	40	40	40	50	50	50	50		
Standard rated power of three-phase (kW)	230/240 V	-	-	-	-	-	-	0.37	0.75	1.1	2.2	3	4	5.5	5.5	5.5	11	15	22		
	400 V	-	-	-	-	-	0.37	0.75	1.5	2.2	4	5.5	7.5	11	11	11	18.5	30	40		
	500 V	-	-	-	-	-	-	0.75	1.5	2.2	4	5.5	9	11	11	11	22	33	45		
	440 V	-	-	-	-	0.37	0.55	1.1	1.5	3	4	7.5	9	11	11	-	22	33	45		
	500 V	-	-	-	-	0.37	0.75	1.1	2.2	3.7	5.5	7.5	9	11	11	-	25	40	55		
	660/690 V	-	-	-	0.37	0.55	1.1	1.5	3	4	7.5	9	11	15	15	-	33	55	63		
Current setting value of instantaneous electromagnetic release $I_r$ (A)		1.5	2.4	5	8	13	22.5	33.5	51	78	138	170	223	327	327	327	480	756	960		
Current rating off use-link of back-up fuse, which is only needed in case of $I_{cc} > I_{cu}$ ( $I_{cc}$ : prospective short-circuit breaking current)	230/240 V	aM A	●	●	●	●	●	●	●	●	●	●	●	80	80	●	●	●	●		
		gI/gG A	●	●	●	●	●	●	●	●	●	●	●	100	100	●	●	●	●		
	400/415 V	aM A	●	●	●	●	●	●	●	●	●	●	63	63	63	63	●	250	315	315	
		gI/gG A	●	●	●	●	●	●	●	●	●	●	80	80	80	80	●	315	400	400	
	440 V	aM A	●	●	●	●	●	●	●	●	50	50	50	50	50	50	-	250	315	315	
		gI/gG A	●	●	●	●	●	●	●	●	63	63	63	63	63	63	-	315	400	400	
	500 V	aM A	●	●	●	●	●	●	●	●	50	50	50	50	50	50	-	160	200	200	
		gI/gG A	●	●	●	●	●	●	●	●	63	63	63	63	63	63	-	200	250	250	
	● Fuse is not required	500 V	aM A	●	●	●	●	●	●	16	25	32	32	40	40	40	40	-	160	200	200
			gI/gG A	●	●	●	●	●	●	20	32	40	40	50	50	50	50	-	200	250	250
Add-on auxiliary contact blocks	Front mounting	1NO+1NC, 2NO																			
	Side mounting	1NO+1NC, 2NO																			
Shunt release		●																			
Under voltage release		■																			
Auxiliary alarm		1NO+1NC, 1NO+1NC, 1NC+1NO, 1NC+1NC																			
Enclosure		●																			
Electrical life in AC-3 (times)		10000																			
Mechanical life (times)		20000																			
Tightening torque (N·m)		1.7																			
Degree of protection		IP20; IP65 with enclosure																			
Ambient air temperature (°C)		-5 to +40, max. 95 % humidity																			
Storage temperature (°C)		-40~+75																			
Maximum operating altitude (meters)		2000																			

# VMP51, from 0.1 to 80 A

- Providing motor overload protection and short-circuit protection.

## Technical Specifications

Type		VMP512																VMP513		
Standards		IEC 60947-2, IEC 60947-4-1																		
Utilization category	according to IEC 60947-2	A																		
Utilization category	according to IEC 60947-4-1	AC-3																		
Rated insulation voltage U <sub>i</sub> (V)		690																		
Rated operational voltage U <sub>e</sub> (V)		230/240, 400/415, 440, 500, 660/690																		
Rated impulse withstand voltage U <sub>imp</sub> (kA)		8																		
Rated range of setting current (A)		0.1-0.16	0.16-0.25	0.25-0.4	0.4-0.63	0.63-1	1-1.6	1.6-2.5	2.5-4	4-6.3	6-10	9-14	13-18	17-23	20-25	24-32	25-40	40-63	56-80	
Rated current of release (A)		0.16	0.25	0.4	0.63	1	1.6	2.5	4	6	10	14	18	23	25	32	40	63	80	
Rated frequency (Hz)		50/60																		
Rated ultimate short-circuit breaking capacity (kA)	230/240 V	100	100	100	100	100	100	100	100	100	100	100	100	50	50	100	100	100	100	
	400/415 V	100	100	100	100	100	100	100	100	100	100	15	15	15	15	35	35	35	35	
Rated service short-circuit breaking capacity (kA)	440 V	100	100	100	100	100	100	100	100	100	100	8	8	6	6	-	25	25	25	
	500 V	100	100	100	100	100	100	100	100	100	100	6	6	4	4	-	8	8	8	
Rated service short-circuit breaking capacity (kA)	660/690 V	100	100	100	100	100	100	3	3	3	3	3	3	3	-	4	4	4		
	230/240 V	100	100	100	100	100	100	100	100	100	100	100	100	50	50	75	75	75	75	
Rated service short-circuit breaking capacity (kA)	400/415 V	100	100	100	100	100	100	100	100	100	100	7.5	6	7.5	6	17.5	17.5	17.5	17.5	
	440 V	100	100	100	100	100	100	100	100	100	100	4	4	3	3	-	12.5	12.5	12.5	
Rated service short-circuit breaking capacity (kA)	500 V	100	100	100	100	100	100	100	100	100	100	4.5	4.5	3	3	-	4	4	4	
	660/690 V	100	100	100	100	100	100	2.25	2.25	2.25	2.25	2.25	2.25	2.25	-	2	2	2	2	
Arcing distance (mm)		40	40	40	40	40	40	40	40	40	40	40	40	40	40	50	50	50	50	
Standard rated power of three-phase (kW)	230/240 V	-	-	-	-	-	-	0.37	0.75	1.1	2.2	3	4	5.5	5.5	5.5	11	15	22	
	400 V	-	-	-	-	-	0.37	0.75	1.5	2.2	4	5.5	7.5	11	11	11	18.5	30	40	
	500 V	-	-	-	-	-	-	0.75	1.5	2.2	4	5.5	9	11	11	11	22	33	45	
	440 V	-	-	-	-	0.37	0.55	1.1	1.5	3	4	7.5	9	11	11	-	22	33	45	
	500 V	-	-	-	-	0.37	0.75	1.1	2.2	3.7	5.5	7.5	9	11	11	-	25	40	55	
660/690 V		-	-	-	0.37	0.55	1.1	1.5	3	4	7.5	9	11	15	15	-	33	55	63	
Current setting value of instantaneous electromagnetic release I <sub>r</sub> (A)		1.5	2.4	5	8	13	22.5	33.5	51	78	138	170	223	327	327	327	480	756	960	
Current rating off use-link of back-up fuse, which is only needed in case of I <sub>cc</sub> >I <sub>cu</sub> (I <sub>cc</sub> : prospective short-circuit breaking current)	230/240 V	aM A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
		gl/gG A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	400/415 V	aM A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		gl/gG A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	440 V	aM A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		gl/gG A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	500 V	aM A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		gl/gG A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	500 V	aM A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		gl/gG A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Add-on auxiliary contact blocks		Front mounting	1NO+1NC, 2NO																	
Shunt release		Side mounting	1NO+1NC, 2NO																	
Under voltage release		•																		
Auxiliary alarm		1NO+1NO, 1NO+1NC, 1NC+1NO, 1NC+1NC																		
Enclosure		•																		
Electrical life in AC-3 (times)		10000																		
Mechanical life (times)		20000																		
Tightening torque (N·m)		1.7																		
Degree of protection		IP20; IP65 with enclosure																		
Ambient air temperature (°C)		-5 to +40, max. 95% humidity																		
Storage temperature (°C)		-40~+75																		
Maximum operating altitude (meters)		2000																		

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