

3SM8E, MCCBs with electronic trip units

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

- Incoming and outgoing function in distribution systems
- Switching and protection devices for motors, transformers and capacitors
- Protect circuits and power supply devices against overload, short-circuit, under-voltage etc
- Used in new energy, power, industry control, buildings
- Available in the following versions
- Power protection
The overload and short-circuit releases are designed for the protection of cables, leads and non-motor loads
- Motor protection
The overload and short-circuit releases are designed for optimized protection and direct-on-line starting of induction squirrel-cage motors

Instruction of type code

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
Новый Уренгой (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
Пермь (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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| M8E | A | 3 | P | 400 | M |
|-----------------------|---|---|---|-----|---|
| Breaking capacity | | | | | |
| M: Medium | | | | | |
| H: High | | | | | |
| Rated current | | | | | |
| 32: 16...32 A | | | | | |
| 63: 32...63 A | | | | | |
| 125: 63...125 A | | | | | |
| 250: 100...250 A | | | | | |
| 400: 200...400 A | | | | | |
| 630: 400...630 A | | | | | |
| 800: 630...800 A | | | | | |
| 1600: 640...1600 A | | | | | |
| Versions | | | | | |
| P: Power distribution | | | | | |
| M: Motor protection | | | | | |
| Number of poles | | | | | |
| 3: 3-pole | | | | | |
| 4: 4-pole | | | | | |
| Code of size | | | | | |
| A: 3SM8E-125 | | | | | |
| B: 3SM8E-250 | | | | | |
| C: 3SM8E-400 | | | | | |
| D: 3SM8E-630 | | | | | |
| E: 3SM8E-800 | | | | | |
| F: 3SM8E-1600 | | | | | |
| Series code | | | | | |

Technical specifications

| Size | A | | B | | C | | D | | E | | F | |
|---|---------------|---|-----------|---------------------------------|-----------|-----------------------------|-----------|---|-----------|---|------------|---------------------------------|
| Type | 3SM8E-125 | | 3SM8E-250 | | 3SM8E-400 | | 3SM8E-630 | | 3SM8E-800 | | 3SM8E-1600 | |
| Standard | IEC 60947-2 | | | | | | | | | | | |
| | IEC 60947-4-1 | | | | | | | | | | | |
| Rated current I_n , adjustable | A | 16-20-25-32, 32-36-40-45-50-55-60-63, 63-65-70-75-80-85-90-95-100-125 | | 100-125-140-160-180-200-225-250 | | 200-225-250-280-315-350-400 | | 400-429-440-460-480-500-530-560-600-630 | | 630-640-660-680-700-720-740-760-780-800 | | 640-800-960-1120-1280-1440-1600 |
| Breaking capacity | M | H | M | H | M | H | M | H | M | H | H | |
| Number of poles | pole | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| Rated operating voltage U_n | V | AC 400 | | | | | | | | | | |
| Rated insulating voltage U_i | V | AC 800 | | | | | | | | | | |
| Rated impulsive withstand voltage U_{imp} | kV | 8 | | | | | | | | | | |
| Rated frequency | Hz | 50/60 | | | | | | | | | | |
| Rated ultimate short-circuit breaking capacity at AC 400 V 50/60 Hz I_{cu} | kA | 50 | 85 | 50 | 85 | 65 | 100 | 65 | 100 | 65 | 100 | 80 |
| Rated operating short-circuit breaking capacity at AC 400 V 50/60 Hz I_{cs} | kA | 35 | 50 | 35 | 50 | 42 | 65 | 42 | 65 | 42 | 65 | 40 |
| Rated short-time withstand current for 1 s at AC 400 V 50/60 Hz I_{sw} | kA | | | | | 5 | | 8 | | 10 | | 20 |
| Category | A | A | | B | | B | | B | | B | | |
| Mechanical life | cycles | 7000 | | 7000 | | 4000 | | 3000 | | 3000 | | 2500 |
| Electrical life | cycles | 3000 | | 3000 | | 2000 | | 1500 | | 1500 | | 1000 |
| Flashover distance | mm | ≤ 50 | | ≤ 50 | | ≤ 100 | | ≤ 100 | | ≤ 100 | | ≤ 120 |

Normal working environment

Altitude

The rated performance of the circuit breaker does not change up to 2000 meters.

Beyond this altitude, the performance of the circuit breaker is subject to derating, see the derating coefficients table on page A/00 .

Temperature

Storage: -40 °C to + 70 °C

Operating: -5 °C to + 40 °C

In case the circuit breaker operates at higher temperatures than +40 °C, the current-carrying capacity of the circuit breaker may be lower than the rated current-carry capacity at the reference temperature, therefore the derating coefficients must be applied. see the derating coefficients table on page A/00.

Relative humidity

When maximum temperature is 40 °C, relative humidity shall be less than 50%.

When the temperature is relative low, the relative humidity is allowed to be higher.

Condensation caused by change of temperature shall be taken special measures.

Pollution level

3

Installation category

Main circuit: III

Auxiliary circuit and control circuit: II

Installation environment

Horizontal or vertical, maximum inclination: 22.5 °.

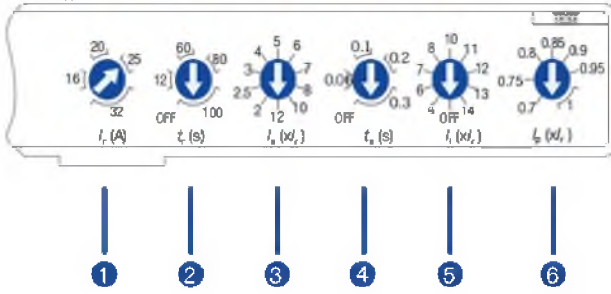
Resistance to moist air, salt mist and oil mist.

Installed in an environment which is not enough to erode the metal or to destroy the insulating gas and without explosive danger.

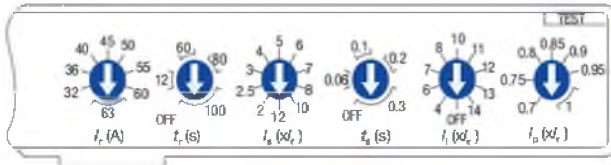
Installed in an environment without attack from rain and snow.

Electronic trip unit

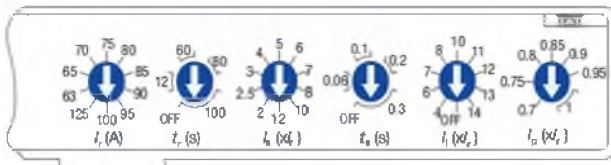
Size A $I_n = 32$ A



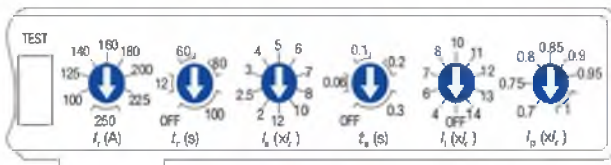
Size A $I_n = 63$ A



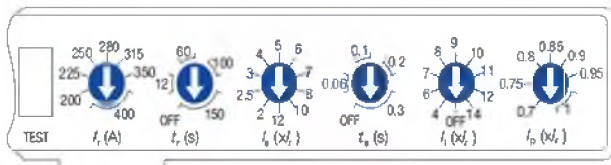
Size A $I_n = 125$ A



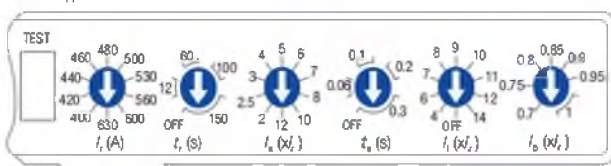
Size B $I_n = 250$ A



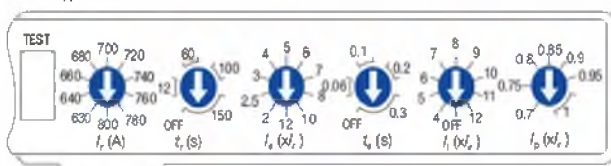
Size C $I_n = 400$ A



Size D $I_n = 630$ A



Size E $I_n = 800$ A



Due to the configured electronic trip units, 3SM8E moulded case circuit breaker is enable to supply following the reliable protection and act correctly:

- Overload protection (L)
- Short-time delayed short-circuit protection (S)
- Instantaneous short-circuit protection (I)

1 I_n

Current setting range of long-time delayed overload protection

| | | |
|--------|-------------|---|
| Size A | up to 32 A | 16-20-25-32 A |
| | up to 63 A | 32-36-40-45-50-55-60 A |
| | up to 100 A | 63-65-70-75-80-85-90-95-100 A |
| Size B | up to 225 A | 100-125-140-160-180-200-225 A |
| Size C | up to 400 A | 200-225-250-280-315-350-400 A |
| Size D | up to 630 A | 400-420-440-460-480-500-530-560-600-630 A |
| Size E | up to 800 A | 630-640-660-680-700-720-740-760-780-800 A |

2 t_s

Setting range of time-lag class for overload protection

| | | |
|------------|-------------|----------------------|
| Size A/B | up to 225 A | OFF, 12-60-80-100 s |
| Size C/D/E | up to 800 A | OFF, 12-60-100-150 s |

3 $I_b = I_n \times \dots$

Current setting range of short-time delayed short-circuit protection

| | | |
|----------------|-------------|-------------------------|
| Size A/B/C/D/E | up to 800 A | 2-2.5-3-4-5-6-7-8-10-12 |
|----------------|-------------|-------------------------|

4 t_s

Setting range of time-lag class for short-circuit protection

| | | |
|----------------|-------------|-------------------------|
| Size A/B/C/D/E | up to 800 A | OFF, 0.06-0.1-0.2-0.3 s |
|----------------|-------------|-------------------------|

5 $I_i = I_n \times \dots$

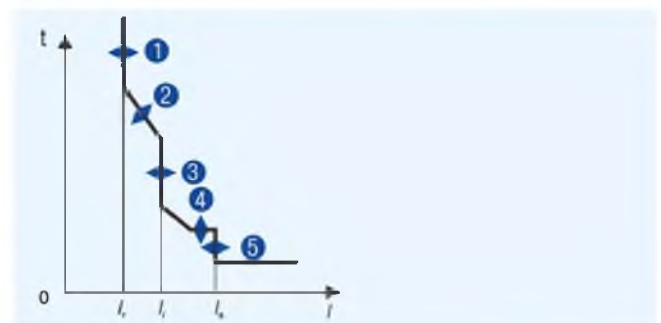
Current setting range of instantaneous short-circuit protection

| | | |
|----------|-------------|-----------------------------|
| Size A/B | up to 225 A | OFF, 4-6-7-8-10-11-12-13-14 |
| Size C/D | up to 630 A | OFF, 4-6-7-8-9-10-11-12-14 |
| Size E | up to 800 A | OFF, 4-5-6-7-8-9-10-11-12 |

6 $I_p = I_n \times \dots$

Current setting range of pre-alarm function

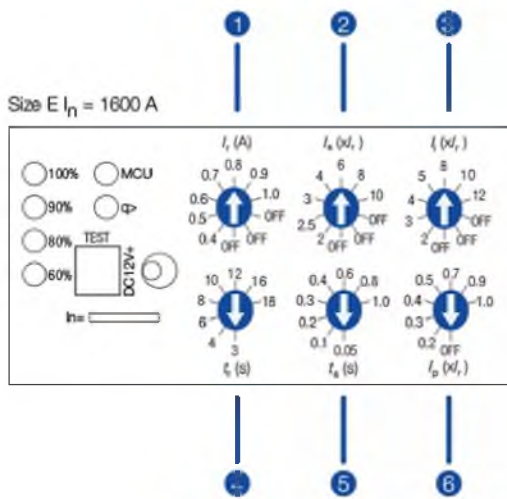
| | | |
|----------------|-------------|------------------------------|
| Size A/B/C/D/E | up to 800 A | 0.7-0.75-0.8-0.85-0.9-0.95-1 |
|----------------|-------------|------------------------------|



Note

*"TEST" is used to test the trip performance.

Electronic trip unit



Due to the configured electronic trip units, 3SM8E molded case circuit breaker is enable to supply following the reliable protection and act correctly:

1. Overload protection (L)
2. Short-time delayed short-circuit protection (S)
3. Instantaneous short-circuit protection (I)

① I_1

Current setting range of long-time delayed overload protection

| | | |
|--------|--------------|-----------------------------------|
| Size F | up to 1600 A | 640-800-960-1120-1280-1440-1600 A |
|--------|--------------|-----------------------------------|

② $I_s = I_1 \times \dots$

Current setting range of short-time delayed short-circuit protection

| | | |
|--------|--------------|------------------|
| Size F | up to 1600 A | 2-2.5-3-4-6-8-10 |
|--------|--------------|------------------|

③ $I_0 = I_1 \times \dots$

Current setting range of instantaneous short-circuit protection

| | | |
|--------|--------------|----------------------|
| Size F | up to 1600 A | OFF, 2-3-4-5-8-10-12 |
|--------|--------------|----------------------|

④ t_1

Setting range of time-lag class for overload protection

| | | |
|--------|--------------|----------------------------|
| Size F | up to 1600 A | OFF, 3-4-6-8-10-12-16-18 s |
|--------|--------------|----------------------------|

⑤ t_s

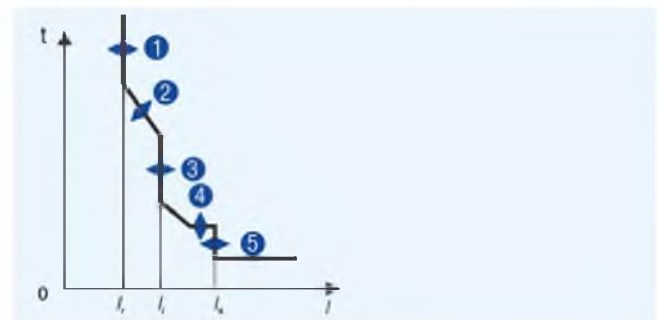
Setting range of time-lag class for short-circuit protection

| | | |
|--------|--------------|---|
| Size F | up to 1600 A | OFF, 0.05-0.1-0.2-0.3-0.4-0.5-0.6-0.8-1.0 s |
|--------|--------------|---|

⑥ $I_0 = I_1 \times \dots$

Current setting range of pre-alarm function

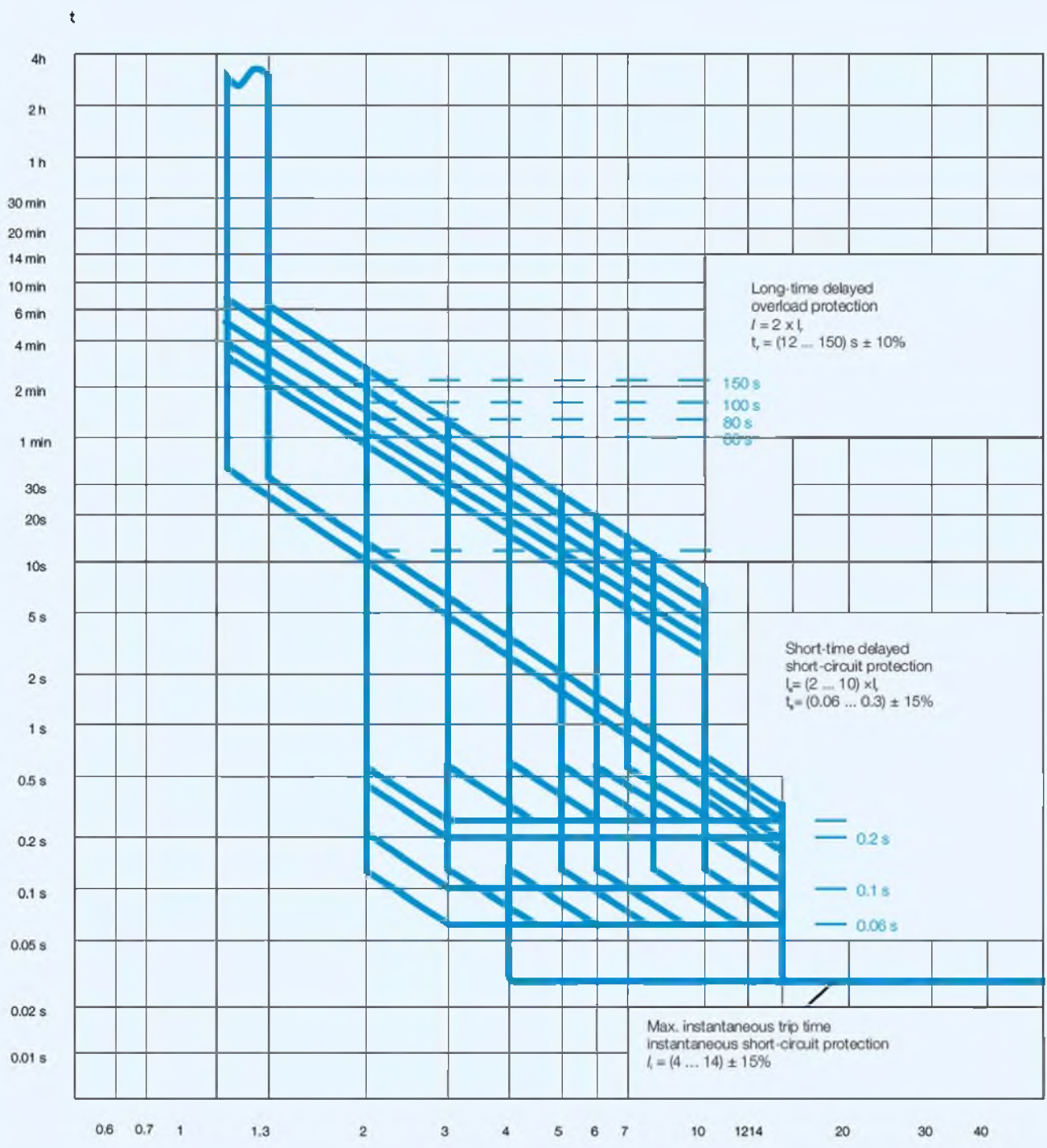
| | | |
|--------|--------------|------------------------------|
| Size F | up to 1600 A | 0.7-0.75-0.8-0.85-0.9-0.95-1 |
|--------|--------------|------------------------------|



Note

"TEST" is used to test the trip performance.

Characteristic curve



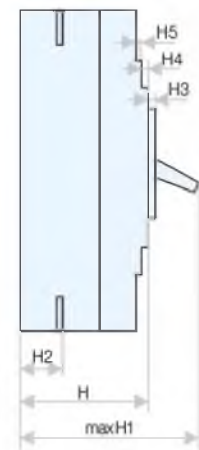
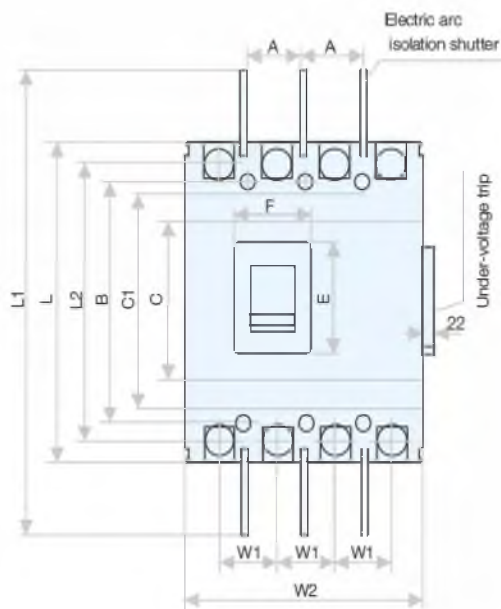
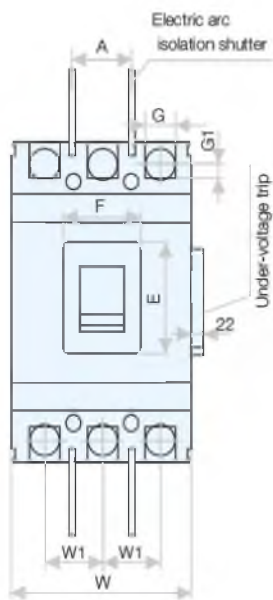
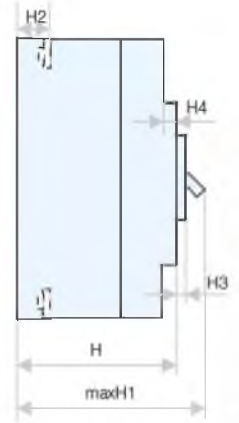
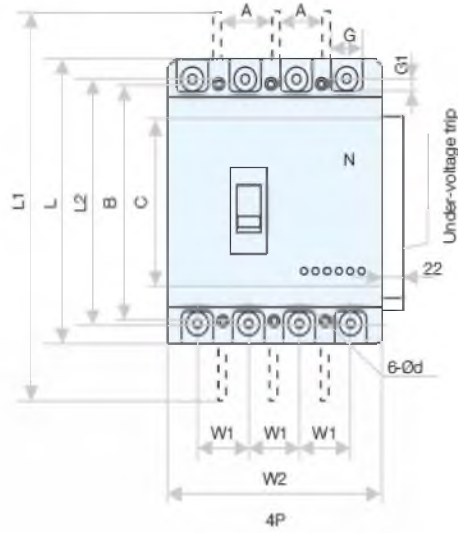
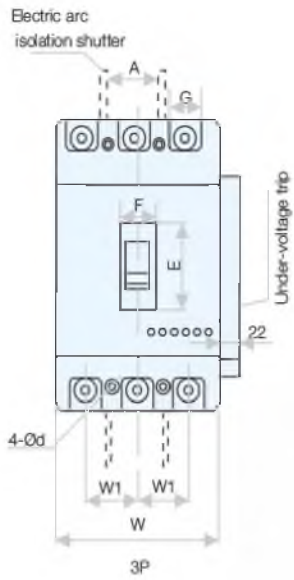
Selection and ordering data



| Rated current I_n (A) | Power distribution | | Motor protection | |
|---|--------------------|------------|------------------|------------|
| | Type code | Order code | Type code | Order code |
| 3-pole | | | | |
| Size A | | | | |
| $I_{ov} = 50 \text{ kA}, I_{os} = 35 \text{ kA}$ | | | | |
| 16 ... 32 | M8EA 3P32M | 39835 | M8EA 3M32M | 39844 |
| 32 ... 63 | M8EA 3P63M | 39836 | M8EA 3M63M | 39845 |
| 63 ... 125 | M8EA 3P125M | 39837 | M8EA 3M125M | 39846 |
| $I_{ov} = 85 \text{ kA}, I_{os} = 50 \text{ kA}$ | | | | |
| 16 ... 32 | M8EA 3P32H | 39838 | M8EA 3M32H | 39847 |
| 32 ... 63 | M8EA 3P63H | 39839 | M8EA 3M63H | 39848 |
| 63 ... 125 | M8EA 3P125H | 39840 | M8EA 3M125H | 39849 |
| Size B | | | | |
| $I_{ov} = 50 \text{ kA}, I_{os} = 35 \text{ kA}$ | | | | |
| 100 ... 250 | M8EB 3P250M | 39853 | M8EB 3M250M | 39856 |
| $I_{ov} = 85 \text{ kA}, I_{os} = 50 \text{ kA}$ | | | | |
| 100 ... 250 | M8EB 3P250H | 39854 | M8EB 3M250H | 39857 |
| Size C | | | | |
| $I_{ov} = 65 \text{ kA}, I_{os} = 42 \text{ kA}$ | | | | |
| 200 ... 400 | M8EC 3P400M | 39859 | M8EC 3M400M | 39862 |
| $I_{ov} = 100 \text{ kA}, I_{os} = 65 \text{ kA}$ | | | | |
| 200 ... 400 | M8EC 3P400H | 39860 | M8EC 3M400H | 39863 |
| Size D | | | | |
| $I_{ov} = 65 \text{ kA}, I_{os} = 42 \text{ kA}$ | | | | |
| 400 ... 630 | M8ED 3P630M | 39865 | M8ED 3M630M | 39868 |
| $I_{ov} = 100 \text{ kA}, I_{os} = 65 \text{ kA}$ | | | | |
| 400 ... 630 | M8ED 3P630H | 39866 | M8ED 3M630H | 39869 |
| Size E | | | | |
| $I_{ov} = 65 \text{ kA}, I_{os} = 42 \text{ kA}$ | | | | |
| 630 ... 800 | M8EE 3P800M | 39871 | M8EE 3M800M | 39874 |
| $I_{ov} = 100 \text{ kA}, I_{os} = 65 \text{ kA}$ | | | | |
| 630 ... 800 | M8EE 3P800H | 39872 | M8EE 3M800H | 39875 |
| Size F | | | | |
| $I_{ov} = 80 \text{ kA}, I_{os} = 40 \text{ kA}$ | | | | |
| 640 ... 1600 | M8EF 3P1600H | 39131 | | |
| 4-pole | | | | |
| Size A | | | | |
| $I_{ov} = 50 \text{ kA}, I_{os} = 35 \text{ kA}$ | | | | |
| 16 ... 32 | M8EA 4P32M | 39841 | M8EA 4M32M | 39850 |
| 32 ... 63 | M8EA 4P63M | 39842 | M8EA 4M63M | 39851 |
| 63 ... 125 | M8EA 4P125M | 39843 | M8EA 4M125M | 39852 |
| Size B | | | | |
| $I_{ov} = 50 \text{ kA}, I_{os} = 35 \text{ kA}$ | | | | |
| 100 ... 225 | M8EB 4P250M | 39855 | M8EB 4M250M | 39858 |
| Size C | | | | |
| $I_{ov} = 65 \text{ kA}, I_{os} = 42 \text{ kA}$ | | | | |
| 200 ... 400 | M8EC 4P400M | 39861 | M8EC 4M400M | 39864 |
| Size D | | | | |
| $I_{ov} = 65 \text{ kA}, I_{os} = 42 \text{ kA}$ | | | | |
| 400 ... 630 | M8ED 4P630M | 39867 | M8ED 4M630M | 39870 |
| Size E | | | | |
| $I_{ov} = 65 \text{ kA}, I_{os} = 42 \text{ kA}$ | | | | |
| 630 ... 800 | M8EE 4P800M | 39873 | M8EE 4M800M | 39876 |
| Size F | | | | |
| $I_{ov} = 80 \text{ kA}, I_{os} = 40 \text{ kA}$ | | | | |
| 640 ... 1600 | M8EF 4P1600H | 39132 | | |

Outline and installation dimensions

3SM8E-100, 225, 400, 630, 800, 1600 (front connection)

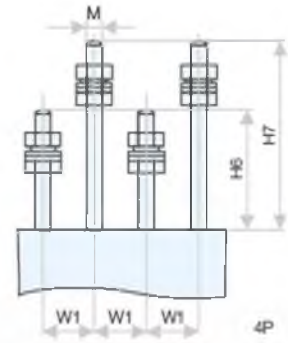
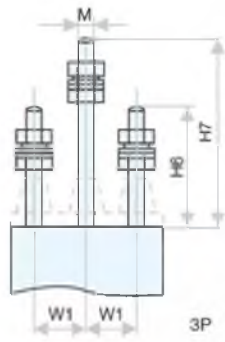


Outline and installation dimensions

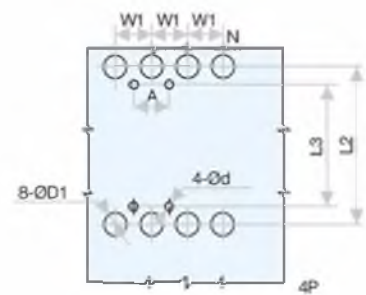
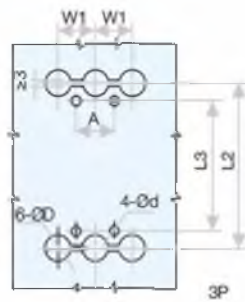
| | | Model | | | | | |
|--------------|-----|-----------|-----------|-----------|-----------|-----------|------------|
| | | 3SM8E-100 | 3SM8E-225 | 3SM8E-400 | 3SM8E-630 | 3SM8E-800 | 3SM8E-1600 |
| Dimensions | C | 88 | 102 | 126 | 128.5 | 128.5 | |
| | C1 | | | 174 | 204 | 204 | |
| | E | 50 | 57.5 | 90.5 | 81 | 81 | |
| | F | 22 | 24 | 60 | 66 | 66 | |
| | G | 19.2 | 22 | 32 | 46 | 46 | |
| | G1 | 7.5 | 10 | 11 | 14 | 14 | |
| | H | 91.7 | 91.2 | 107.5 | 112 | 112 | 137 |
| | H1 | 109.4 | 106.7 | 149 | 155 | 155 | 191 |
| | H2 | 28 | 22.8 | 38 | 37.5 | 37.5 | 41 |
| | H3 | 4 | 4 | 9 | 10 | 10 | 15 |
| | H4 | 10 | 5.5 | 4 | 10.5 | 10.5 | |
| | H5 | | | 5.6 | 8.5 | 8.5 | |
| | L | 150 | 165 | 258 | 280 | 280 | 330 |
| | L1 | 255 | 360 | 457 | 470 | 470 | 506 |
| | L2 | 132 | 145 | 225 | 243 | 243 | |
| | W | 92 | 127 | 150 | 210 | 210 | 210 |
| | W1 | 30 | 35 | 48 | 70 | 70 | 70 |
| W2 | 122 | 162 | 198 | 280 | 280 | 280 | |
| Installation | A | 35 | 35 | 48 | 70 | 70 | 70 |
| Dimensions | B | 129 | 126 | 195 | 244 | 244 | 299 |
| | Ød | 4.5 | 4.5 | 7 | 7 | 7 | 9 |

Outline and installation dimensions

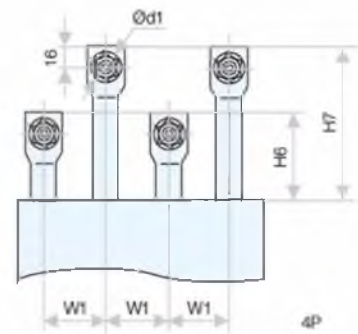
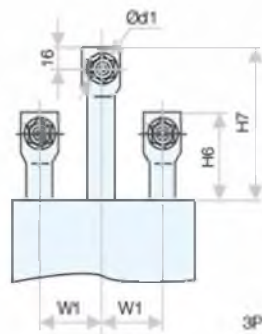
3SM8E-63, 100, 225 (Rear connection)



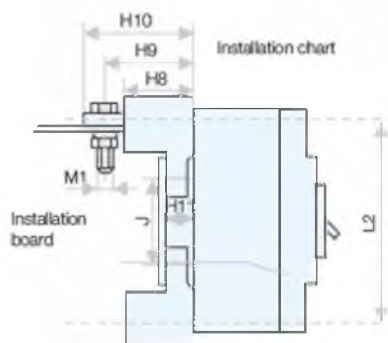
Rear connection stiletto chart



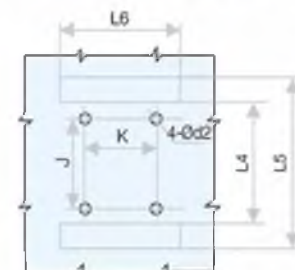
3SM8E-400, 630, 800 (Rear connection)



Insert style



Installation board stiletto chart



| | 3SM8E-100 | 3SM8E-225 | 3SM8E-400 | 3SM8E-630 | 3SM8E-800 |
|-----|-----------|-----------|-----------|-----------|-----------|
| A | 30 | 35 | 44 | 70 | 70 |
| Ød | Ø4.5 | Ø4.5 | Ø6.5 | Ø7 | Ø7 |
| Ød1 | -- | -- | Ø12.5 | Ø16.5 | Ø16.5 |
| Ød2 | Ø6.5 | Ø6.5 | Ø8.5 | Ø11.5 | Ø11.5 |
| ØD | Ø25 | Ø25 | Ø32 | Ø48 | Ø48 |
| ØD1 | Ø25 | Ø25 | Ø32 | Ø48 | Ø48 |
| H6 | 53 | 58 | 63.5 | 84 | 84 |
| H7 | 88 | 89 | 104.5 | 84 | 84 |
| H8 | 50 | 50 | 60 | 88 | 88 |
| H9 | 64 | 65.5 | 80 | -- | -- |
| H10 | 82 | 85 | 102 | 105 | 105 |
| H11 | 17.5 | 16 | 21 | 30 | 30 |
| L2 | 132 | 144 | 224 | 243 | 243 |
| L3 | 107 | 126 | 194 | 243 | 243 |
| L4 | 90 | 88 | 166 | 175 | 175 |
| L5 | 172 | 190 | 282 | 305 | 305 |
| L6 | 94 | 110 | 152 | 213 | 213 |
| M | M8 | M8 | -- | -- | -- |
| K | 60 | 70 | 60 | 90 | 90 |
| J | 56 | 54 | 129 | 123 | 123 |
| M1 | M8 | M8 | M12 | M14 | M14 |
| W1 | 30 | 35 | 48 | 70 | 70 |

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