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Find the *OMRON J7M-BM/TB-16* at our website: ***Click HERE***

J7M-AM System

- Rated operational current 25 A.
- Switching capacity up to 10 A, 100 kA/415 V.
- Switching capacity 16 A, 20 A , 25 A, 16 kA/415 V.
- Fixed short-circuit release 14 x I_u.
- Overload release, adjustable 0.6-1 x I_u.
- Single-phasing sensitivity.

Auxiliary contacts modules

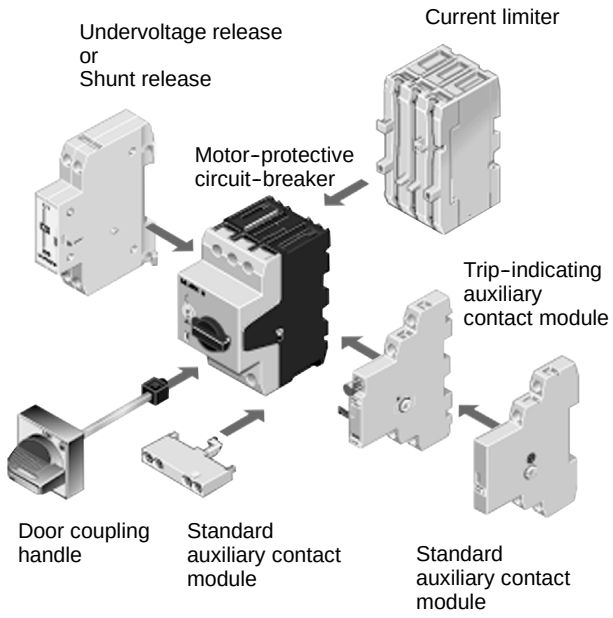
- ON/OFF indication for motor-protective circuit-breaker.
- Differential fault indication of overload/short-circuit tripping.

Current limiter

- Increases the switching capacity of the J7M-AM-16, -20, -25 motor-protective circuit-breakers to 100 kA/440 V.
- Suitable for individual and group protection.

Accessories

- Undervoltage release.
- Shunt release.
- Three-phase commoning link for series mounting.
- Door coupling handle IP65
  Indication of switch position: ON/OFF / Tripped.
  Lockable by means of 3 padlocks.
- Lockable rotary handle by means of 1 padlock.
- Surface mounting enclosures with IP55.
- Flush mounting enclosures front IP55.



IEC 947, EN 60947

J7M-BM System

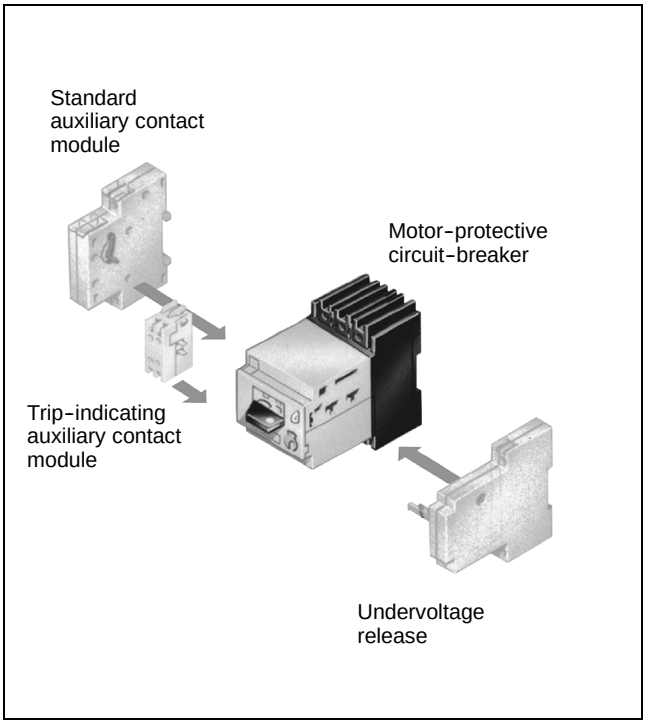
- Rated operational current 40 A, 18.5 kW/415 V.
- Switching capacity 30 kA/415 V.
- Plug-in trip block.
- Short-circuit release, adjustable.
- Overload release, adjustable.
- Single-phasing sensitivity.
- Finger proof terminals.

Auxiliary contacts modules

- ON/OFF indication for motor-protective circuit-breaker.
- Differential fault indication of overload/short-circuit tripping.

Accessories

- Undervoltage release.
- Three-phase commoning link for series mounting.
- Lockable handle by means of 1 padlock (hasp thickness 4-6 mm).



IEC 947, EN 60947

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Ordering Information

Model Number Legend:

Motor-protective circuit-breaker:

J7M- j j / j
1 2 3

1. **Frame size:**
   A or B
2. **Load:**
   M: motor load
3. **Trip current:**
   -x, xx = in case of incorporated trip unit (J7M-AM).
   /TB-xx = in case of exchangeable trip block (J7M-BM).

Auxiliary contact modules:

J73M- j j - j j
1 2 3 4

1. **Frame size:**
   A or B
2. **Application:**
   M = Motor.
3. **No. of contacts and configuration**
4. **Mounting:**
   -E = build in (only J7M-AM).

Accessories:

J7M j - j
1 2

1. **Frame size of the Motor-protective circuit-breaker:**
   A or B
2. **Type of accessories:**
   TI = Trip indicating auxiliary contact module (TI-10, TI-01 for J7MA, TI-11 for J7MB).
   L3- = Link 3 pole devices (1/2, 1/3, 1/4, 1/5 for J7MA, 1/2, 1/3 for J7MB).
   S-L3 = Shroud for L3...
   TC- = Terminal connection 3phases (25/3 for J7MA, 50/3 for J7MB).
   AK = Lockable rotary handle (only for J7MA).
   IE-G(R) = Insulated enclosure for surface mounting (only for J7MA).
   FE-GR = Insulated enclosure for flush mounting (only for J7MA).
   PF-IE = Padlocking facility (only for J7MA-IE-G(R)).
   PF-FE = Padlocking facility (only for J7MA-FE-GR.
   CL = Current limiter.
   RH = Door coupling handle.
   SR = Shunt release.
   U = Undervoltage release.

Available types

J7M-AM system

Type	
Motor-protective circuit-breakers	**J7M-AM-0,16**
	J7M-AM-0,25
	J7M-AM-0,4
	J7M-AM-0,63
	J7M-AM-1
	J7M-AM-1,6
	J7M-AM-2,5
	J7M-AM-4
	J7M-AM-6,3
	J7M-AM-10
	J7M-AM-16
	J7M-AM-20
	J7M-AM-25
Standard auxiliary contact modules	**J73M-AM-11**
	J73M-AM-11-E
Trip-indicating auxiliary contact modules	**J7MA-TI-01**
	J7MA-TI-10
Current limiter	**J7MA-CL**
Undervoltage releases	**J7MA-U(110V50Hz)**
	J7MA-U(230V50Hz)
	J7MA-U(415V50Hz)
Shunt releases	**J7MA-SR(415V50Hz)**
	J7MA-SR(230V50Hz)
	J7MA-SR(48V50Hz)
	J7MA-SR(24V50Hz)
	J7MA-SR(24VDC)

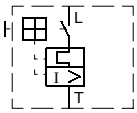
J7M-BM system

Type	
Motor-protective circuit-breakers	**J7M-BM/TB-10**
	J7M-BM/TB-16
	J7M-BM/TB-25
	J7M-BM/TB-32
	J7M-BM/TB-40
Standard auxiliary contact module	**J73M-BM-11**
Trip-indicating auxiliary contact module	**J7MB-TI-11**
Undervoltage releases	**J7MB-U(415V50Hz)**
	J7MB-U(230V50Hz)
	J7MB-U(110V50Hz)
	J7MB-U(48V50Hz)
	J7MB-U(24V50Hz)

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System overview

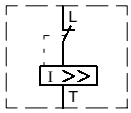
■ Motor-protective circuit-breakers J7M-AM System



J7M-AM

Article No. 	Max. AC-3 rating					Rated uninterrupted current (I_u) (A)	Overload release setting range (I_r) (A)	Short circuit release (I_{rm}) (A)	Std. pack
	220 V 230 V 240 V (kW)	380 V 400 V 415 V (kW)	440 V (kW)	500 V (kW)	660 V 690 V (kW)				
J7M-AM-0,16	–	–	–	–	0.06	0.16	0.1 – 0.16	2.2	2 off
J7M-AM-0,25	–	0.06	0.06	0.06	0.12	0.25	0.16 – 0.25	3.5	2 off
J7M-AM-0,4	0.06	0.09	0.12	0.12	0.18	0.4	0.25 – 0.4	5.6	2 off
J7M-AM-0,63	0.09	0.12	0.18	0.25	0.25	0.63	0.4 – 0.63	8.8	2 off
J7M-AM-1	0.12	0.25	0.25	0.37	0.55	1.0	0.63 – 1.0	14.0	2 off
J7M-AM-1,6	0.25	0.55	0.55	0.75	1.1	1.6	1.0 – 1.6	22.0	2 off
J7M-AM-2,5	0.37	0.75	1.1	1.1	1.5	2.5	1.6 – 2.5	35.0	2 off
J7M-AM-4	0.75	1.5	1.5	2.2	3.0	4.0	2.5 – 4.0	56.0	2 off
J7M-AM-6,3	1.1	2.2	3.0	3.0	4.0	6.3	4.0 – 6.3	88.0	2 off
J7M-AM-10	2.2	4.0	4.0	4.0	7.5	10.0	6.3 – 10.0	140.0	2 off
J7M-AM-16	4.0	7.5	9.0	9.0	12.5	16.0	10.0 – 16.0	224.0	2 off
J7M-AM-20	5.5	9.0	11.0	12.5	15.0	20.0	16.0 – 20.0	280.0	2 off
J7M-AM-25	5.5	12.5	12.5	15.0	22	25.0	20.0 – 25.0	350.0	2 off

Note: Single-phasing sensitivity to IEC 947-4-1. For snap fitting to EN 50022-35 top-hat rail, height 7.5 or 15 mm.



J7MA-CL Current limiter

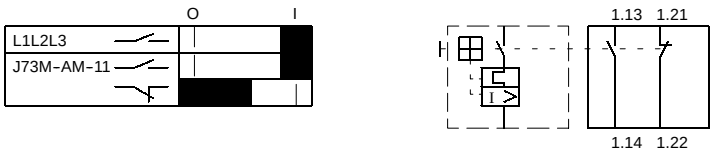
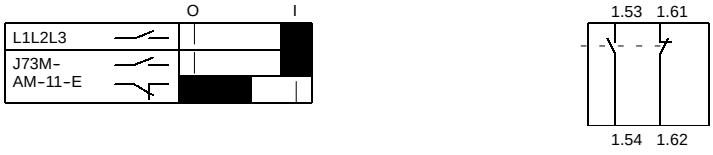
Article No.	Max. AC-3 rating					Rated uninterrupted current (I_u) (A)	Overload release setting range (I_r) (A)	Short circuit release (I_{rm}) (A)	Std. pack
	220 V 230 V 240 V (kW)	380 V 400 V 415 V (kW)	440 V (kW)	500 V (kW)	660 V 690 V (kW)				
J7MA-CL 	To increase the switching capacity of J7M-AM 0-16, -20, -25 motor-protective circuit-breakers which are not inherently short-circuit-proof, to 100 kA/440 V.					63.0	–	–	2 off

Note: Max. rated operational voltage U_e = 690 V. For individual and group protection in combination with J7M-AM 0-16, -20, -25 motor-protectice circuit-breakers.
Use input terminals J7MA-TC-25/3 for bigger cable section ($\geq$10 mm^2).

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Standard auxiliary contact modules

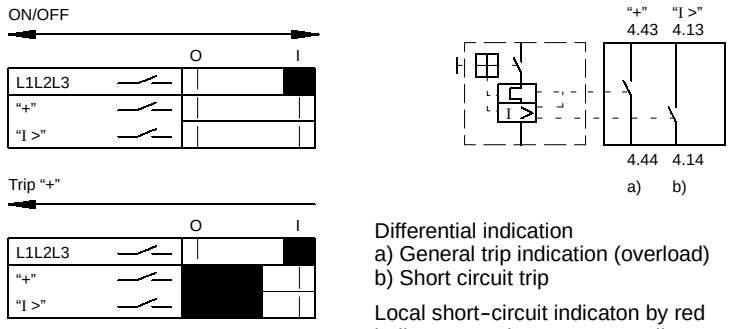
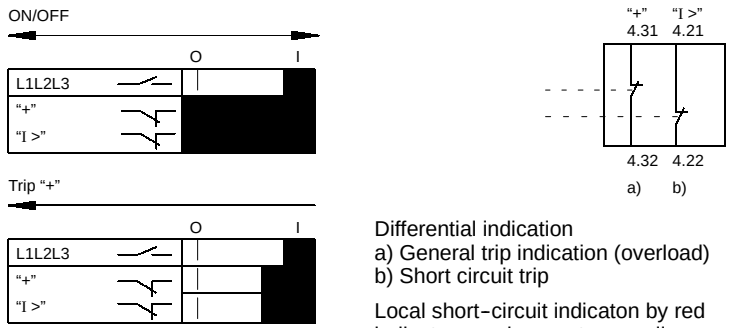
For motor-protective circuit-breakers.

Article No.	Contacts M = Make B = Break	Contact sequence	Std. pack
J73M-AM-11 [1)] 	1M 1B		5
J73M-AM-11-E [2)] 	1M 1B		5

Note: 1. Can be fitted to the right of: Motor-protective circuit-breaker. Can be combined with: J7MA-TI trip-indicating auxiliary contact.
2. 45 mm width of the motor-protective circuit-breaker remains unchanged.

Trip-indicating auxiliary contact modules

For motor-protective circuit-breakers.

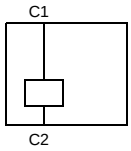
Article No.	Contacts M = Make B = Break	Contact sequence	Std. pack
J7MA-TI-10 	2 x 1M	 Differential indication a) General trip indication (overload) b) Short circuit trip Local short-circuit indicaton by red indicator, can be reset manually.	1
J7MA-TI-01 	2 x 1B	 Differential indication a) General trip indication (overload) b) Short circuit trip Local short-circuit indicaton by red indicator, can be reset manually.	1

Note: Can be fitted to the right of: Motor-protective circuit-breaker. Can be combined with: J73M-AM-11 standard auxiliary contact.

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Shunt release

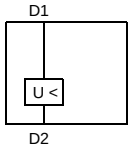
For DC and AC
DC: intermittent operation 5 s.

Article No.		Std. pack
J7MA-SR (415 V, 50 Hz) **J7MA-SR (230 V, 50 Hz)** **J7MA-SR (48 V, 50 Hz)** **J7MA-SR (24 V, 50 Hz)** **J7MA-SR (24 VDC)** 		2

Note: Can be fitted to the left of: Motor-protective circuit-breaker.
Can not be combined with: J7MA-U undervoltage release.

Undervoltage release

For AC
Can be combined with motor-protective circuit-breaker
for emergency-stop facility to VDE 0113

Article No.		Std. pack
J7MA-U (415 V, 50 Hz) **J7MA-U (230 V, 50 Hz)** **J7MA-U (110 V, 50 Hz)** **J7MA-U (48 V, 50 Hz)** **J7MA-U (24 V, 50 Hz)** 		2

Note: Can be fitted to the left of: Motor-protective circuit-breaker.
Cannot be combined with: J7MA-SR shunt release.

■ Accessories

Insulated enclosures for surface mounting for motor-protective circuit-breakers

Article No.	Degree of protection	Note	For use with	Std. pack
J7MA-IE-G 	IP55	With black/grey rotary handle.	J7M-AM-.. + J73M-AM-11 + J7MA-TI-.. + J73M-AM-11-E or J7M-AM-.. + J7MA-U + J73M-AM-11-E or J7M-AM-.. + J7MA-SR + J73M-AM-11-E	2
J7MA-IE-GR 	IP55	With red/yellow rotary handle.	J7M-AM-.. + J73M-AM-11 + J7MA-TI-.. + J73M-AM-11-E or J7M-AM-.. + J7MA-U + J73M-AM-11-E or J7M-AM-.. + J7MA-SR + J73M-AM-11-E	2
J7MA-PF-IE 	-	Padlocking facility for J7MA-IE-G(R) surface mounting enclosure for up to 3 padlocks with a hasp thickness of 3-6 mm. Can be locked in the OFF position of the J7M-AM.	J7MA-IE-G or J7MA-IE-GR	1

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Insulated enclosure for flush mounting for motor-protective circuit-breakers

Article No.	Degree of protection	Note	For use with	Std. pack
J7MA-FE-GR 	Front IP55	With red/yellow rotary handle.	J7M-AM-.. + J73M-AM-11 + J7MA-TI-.. + J73M-AM-11-E or J7M-AM-.. + J7MA-SR + J73M-AM-11-E or J7M-AM-.. + J7MA-U + J73M-AM-11-E	1
J7MA-PF-FE 	-	Padlocking facility for J7MA-FE-GR flush mounting enclosure for up to 3 padlocks with a hasp thickness of 3-6 mm. Can be locked in the OFF position of the J7M-AM.	J7MA-FE-GR	1

Door coupling handle

Article No.	Degree of protection	Note	For use with	Std. pack
J7MA-RH 	IP65	For main switch with emergency-stop function. Colour: red/yellow The plug-fit extension shaft can be cut to any required lenght for mounting depths from 100-240 mm. Note: The driver pin and extension shaft are supplied with door coupling handle.	J7M-AM-..	1

Lockable rotary handle

Article No.	Note	For use with	Std. pack
J7MA-AK 	For locking the motor-protective circuit-breaker in the OFF POSITION by means of a padlock, hasp thickness 3-6.35 mm.	J7M-AM-..	1

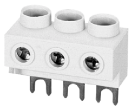
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Three-phase commoning links

Protection against accidental contact U_e = 690 V, I_u = 63 A.
Can be extended by mounting in reversed position.

Article No.	Number of MPCB	Lenght	Unit width	Note:	Std. pack
J7MA-L3-1/2 	2	99 mm	45 + 9 mm	For motor-protective circuit-breakers having one auxiliary contact or trip-indicating auxiliary contact fitted on the right.	10
J7MA-L3-1/3 	3	153 mm	45 + 9 mm		10
J7MA-L3-1/4 	4	207 mm	45 + 9 mm		10
J7MA-L3-1/5 	5	261 mm	45 + 9 mm		10

Terminal for three-phase commoning link

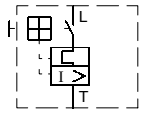
Article No.	Note	Std. pack
J7MA-TC25/3 	For three-phase commoning links. Protection against accidental contact, U_e = 690 V, I_u = 63 A. For connecting conductor cross-sections of: 6-25 mm^2 stranded 6-16 mm^2 flexible with ferrule	5

Shroud for unused terminals

Article No.	Note	For use with	Std. pack
J7MA-S-L3 	Protection against accidental contact. To cover unused terminals on a three-phase commoning link.	J7MA-L3-1/2 J7MA-L3-1/3 J7MA-L3-1/4 J7MA-L3-1/5	20

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■ Motor-protective circuit-breakers J7M-BM System



J7M-BM

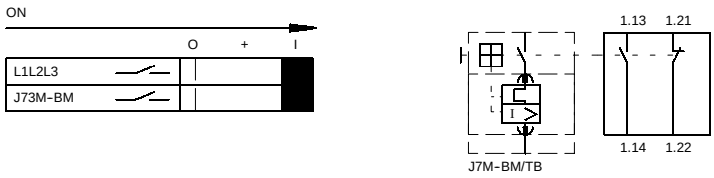
Article No. 	Max. AC-3 rating					Rated uninterrupted current (I_u)	Overload release setting range (I_r)	Short circuit release (I_{rm})	Std. pack
	220 V 230 V 240 V (kW)	380 V 400 V 415 V (kW)	440 V (kW)	500 V (kW)	660 V 690 V (kW)	(A)	(A)	(A)	
J7M-BM/TB-10	2.5	4.0	5.0	5.5	7.5	10.0	6.0 - 10.0	80.0 - 140.0	1 off
J7M-BM/TB-16	4.0	7.5	9.0	10.0	13.5	16.0	10.0 - 16.0	130.0 - 220.0	1 off
J7M-BM/TB-25	5.5	12.5	12.5	15.0	22.0	25.0	16.0 - 25.0	200.0 - 350.0	1 off
J7M-BM/TB-32	7.5	15.0	17.5	22.0	22.0	32.0	24.0 - 32.0	275.0 - 425.0	1 off
J7M-BM/TB-40	11.0	20.0	22.0	24.0	27.0	40.0	32.0 - 40.0	350.0 - 500.0	1 off

Note: 1. Single-phasing sensitivity to IEC 947-4-1.
Can be snap fitted onto a 7.5 or 15 mm top-hat rail to EN 50022-35.

2. Overload release, adjustable I_r = 0.6-1.0 x I_u.
Short-circuit release, adjustable I_{rm} = 8.5-14 x I_u (factory-set to 12 x I_u).

Standard auxiliary contact

For motor-protective circuit-breakers.

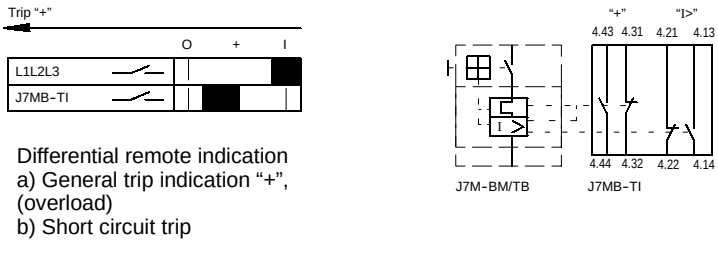
Article No.	Contacts M = Make B = Break	Contact sequence	Std. pack
J73M-BM-11 	1M 1B		1 off

Note: When the motor-protective circuit-breaker is in the tripped position "+", the contacts of the J73M-BM auxiliary contact module are in the OFF position.

Can be fitted to motor-protective circuit-breakers. Can be used in conjunction with J7MB-TI-11 trip-indicating contacts.

Trip indicating auxiliary contacts including short-circuit indicator

For motor-protective circuit-breakers.

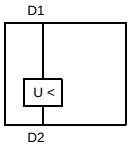
Article No.	Contacts M = Make B = Break	Contact sequence	Std. pack
J7MB-TI-11 	2 x 1M 1B	 Differential remote indication a) General trip indication "+", (overload) b) Short circuit trip	1 off

Note: Can be fitted to motor-protective circuit-breakers. Can be combined with J73M-BM standard auxiliary contacts.

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Undervoltage releases
Non delayed

For AC and DC.
In combination with motor-protective circuit-breakers suitable for emergency-stop disconnection to IEC 204.

Article No.		Std. pack
J7MB-U (230 V, 50 Hz) **J7MB-U (110 V, 50 Hz)** **J7MB-U (24 VDC)** 		1 off

Note: Can be fitted to motor-protective circuit-breakers.

■ Accessories

Three-phase commoning links

Protection against accidental contact for group mounting of two or three circuit breakers 120 A (3 x 40 A).

Article No.	Number of motor-protective circuit-breakers	Lenght	Note:	Std. pack
J7MB-L3-1/2 	2	140 mm	Space is provided for either one auxiliary contact or one voltage release.	5
J7MB-L3-1/3 	3	222 mm	Space is provided for either two auxiliary contact or two voltage release.	5

Terminal for three-phase commoning link

Terminal is back-of-hand and finger-proof.
For connection of large cable cross-sections or loops.

Article No.	Note	Std. pack
J7MB-TC50/3 	For connecting: 1 x 50 mm^2 or 2 x 35 mm^2, one above the other min. 1 x 1 mm^2 or 2 x 1 mm^2	1

Shroud for unused terminals

Article No.	Note	For use with	Std. pack
J7MB-S-L3 	Protection against accidental contacts. To cover unused terminals on a three-phase commoning link.	J7MB-L3-1/2 J7MB-L3-1/3	10

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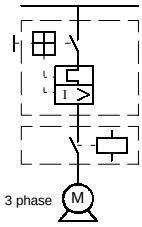
■ Modules for motor-starter combinations

Type “1” coordinaton
400/415 V AC




The motor-starter combinations constist of :
Motor-protective circuit-breaker and contactor.

They conform to IEC 947-4-1, EN 60 947-4-1.
I_q = Rated conditional short-circuit current.



Motor-protective circuit-breaker	Contactor	Motor data		Rated uninterrupted current	Rated short-circuit current 380-400/415 V	Setting range	
		AC-3 380 V 400 V 415 V P (kW)	Rated operational current 400 V I_e (A)	I_u (A)	I_q (kA)	Overload release I_r (A)	Short-circuit release I_{rm} (A)
J7M-AM-0,25	**J7K-AMA-10(..)**	0.06	0.2	0.25	100/100	0.16 - 0.25	3.5
J7M-AM-0,4	**J7K-AMA-10(..)**	0.09	0.9	0.4	100/100	0.2 - 0.4	5.6
J7M-AM-0,63	**J7K-AMA-10(..)**	0.12	0.4	0.63	100/100	0.4 - 0.63	8.8
J7M-AM-0,63	**J7K-AMA-10(..)**	0.18	0.58	0.63	100/100	0.4 - 0.63	8.8
J7M-AM-1	**J7K-AMA-10(..)**	0.25	0.81	1.0	100/100	0.63 - 1.0	14.0
J7M-AM-1,6	**J7K-AMA-10(..)**	0.37	1.05	1.6	100/100	1.0 - 1.6	22.0
J7M-AM-1,6	**J7K-AMA-10(..)**	0.55	1.42	1.6	100/100	1.0 - 1.6	22.0
J7M-AM-2,5	**J7K-AMA-10(..)**	0.75	1.86	2.5	100/100	1.6 - 2.5	35.0
J7M-AM-4	**J7K-AMA-10(..)**	1.1	2.65	4.0	100/100	2.5 - 4.0	56.0
J7M-AM-4	**J7K-AMA-10(..)**	1.5	3.6	4.0	100/100	2.5 - 4.0	56.0
J7M-AM-6,3	**J7K-AMA-10(..)**	2.2	5.2	6.3	100/100	4.0 - 6.3	88.0
J7M-AM-10	**J7K-AMA-10(..)**	3.0	6.8	10.0	100/100	6.3 - 10.0	140.0
J7M-AM-10	**J7K-AMA-10(..)**	4.0	8.8	10.0	100/100	6.3 - 10.0	140.0
J7M-AM-16	**J7K-BMA(..)**	5.0	11.4	16.0	16/16	10.0 - 16.0	224.0
J7M-AM-16	**J7K-CM(..)**	7.5	15.4	16.0	16/16	10.0 - 16.0	224.0
J7M-AM-25	**J7K-CMA(..)**	11.0	22.1	25.0	16/16	16.0 - 25.0	350.0

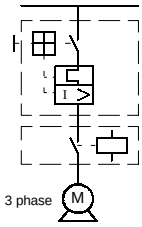
Type “1” coordinaton
400/415 V AC




The motor-starter combinations constist of :
Motor-protective circuit-breaker and contactor.

They conform to IEC 947-4-1, EN 60 947-4-1.
I_q = Rated conditional short-circuit current.

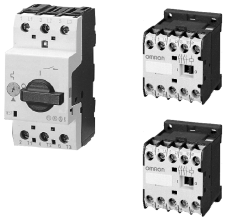
Setting note:
Set the I_{rm} short-circuit release of the J7M-BM/TB motor-protective circuit-breaker to 8.5-14 x rated operational current I_e.



Motor-protective circuit-breaker	Contactor	Motor data		Rated uninterrupted current	Rated short-circuit current 380-415 V	Setting range	
		AC-3 380 V 400 V 415 V P (kW)	Rated operational current 400 V I_e (A)	I_u (A)	I_q (kA)	Overload release I_r (A)	Short-circuit release I_{rm} (A)
J7M-BM/TB-10	**J7K-CM(..)**	3.0	6.8	10.0	100	6.0 -10.0	80.0 - 140.0
J7M-BM/TB-10	**J7K-CM(..)**	4.0	8.8	10.0	100	6.0 - 10.0	80.0 - 140.0
J7M-BM/TB-16	**J7K-CM(..)**	5.5	11.4	16.0	100	10.0 -16.0	130.0 - 220.0
J7M-BM/TB-16	**J7K-CM(..)**	7.5	15.4	16.0	100	10.0 -16.0	130.0 - 220.0
J7M-BM/TB-25	**J7K-CMA(..)**	11.0	22.1	25.0	30	16.0 -25.0	200.0 - 350.0
J7M-BM/TB-32	**J7K-DM(..)**	15.0	28.5	32.0	30	24.0 - 32.0	275.0 - 425.0
J7M-BM/TB-40	**J7K-DMA(..)**	18.5	35.0	40.0	30	32.0 - 40.0	350.0 - 500.0

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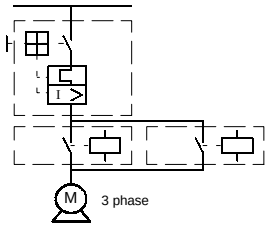
Type “1” coordinaton
400/415 V AC



Modules for reversing starter combinations

The reversing-starter combinations constist of :
Motor-protective circuit-breaker and two contactor.

They conform to IEC 947-4-1, EN 60 947-4-1.
I_q = Rated conditional short-circuit current.



Motor-protective circuit-breaker	Contactor	Motor data		Rated uninterrupted current	Rated short-circuit current 380-415 V	Setting range	
		AC-3 380 V 400 V 415 V P (kW)	Rated operational current 400 V I_e (A)	I_u (A)	I_q (kA)	Overload release I_r (A)	Short-circuit release I_{rm} (A)
J7M-AM-0,25	2 x **J7K-AMA(..)**	0.06	0.2	0.25	100	0.16 - 0.25	3.5
J7M-AM-0,4	2 x **J7K-AMA(..)**	0.09	0.29	0.4	100	0.25 - 0.4	5.6
J7M-AM-0,63	2 x **J7K-AMA(..)**	0.12	0.4	0.63	100	0.4 - 0.63	8.8
J7M-AM-0,63	2 x **J7K-AMA(..)**	0.18	0.58	0.63	100	0.4 - 0.63	8.8
J7M-AM-1	2 x **J7K-AMA(..)**	0.25	0.81	1.0	100	0.63 - 1.0	14.0
J7M-AM-1,6	2 x **J7K-AMA(..)**	0.37	1.05	1.6	100	1.0 - 1.6	22.0
J7M-AM-1,6	2 x **J7K-AMA(..)**	0.55	1.42	1.6	100	1.0 - 1.6	22.0
J7M-AM-2,5	2 x **J7K-AMA(..)**	0.75	1.86	2.5	100	1.6 - 2.5	35.0
J7M-AM-4	2 x **J7K-AMA(..)**	1.1	2.65	4.0	100	2.5 - 4.0	56.0
J7M-AM-4	2 x **J7K-AMA(..)**	1.5	3.6	4.0	100	2.5 - 4.0	56.0
J7M-AM-6,3	2 x **J7K-AMA(..)**	2.2	5.2	6.3	100	4.0 - 6.3	88.0
J7M-AM-10	2 x **J7K-AMA(..)**	3.0	6.8	10.0	100	6.3 - 10.0	140.0
J7M-AM-10	2 x **J7K-AMA(..)**	4.0	8.8	10.0	100	6.3 - 10.0	140.0
J7M-AM-16	2 x **J7K-BMA(..)**	5.0	11.4	16.0	16	10.0 - 16.0	224.0
J7M-AM-16	2 x **J7K-CM(..)**	7.5	15.4	16.0	16	10.0 - 16.0	224.0
J7M-AM-25	2 x **J7K-CMA(..)**	11.0	22.1	25.0	16	20.0 - 25.0	350.0

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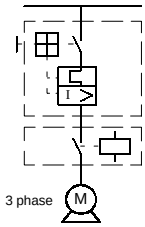
Type “2” coordinaton
400/415 V AC



Modules for motor-starter combinations

The motor-starter combinations constist of:
Motor-protective circuit-breaker and contactor.

They conform to IEC 947-4-1, EN 60 947-4-1.
I_q = Rated conditional short-circuit current.



Motor-protective circuit-breaker	Contactor	Motor data		Rated uninterrupted current	Rated short-circuit current 380-415 V	Setting range	
		AC-3 380 V 400 V 415 V P (kW)	Rated operational current 400 V I_e (A)	I_u (A)	I_q (kA)	Overload release I_r (A)	Short circuit release I_{rm} (A)
J7M-AM-0,25	**J7K-AMA(..)**	0.06	0.2	0.25	100	0.16 - 0.25	3.5
J7M-AM-0,4	**J7K-AMA(..)**	0.09	0.29	0.40	100	0.25 - 0.4	5.6
J7M-AM-0,63	**J7K-AMA(..)**	0.12	0.4	0.63	100	0.4 - 0.63	8.8
J7M-AM-0,63	**J7K-AMA(..)**	0.18	0.58	0.63	100	0.4 - 0.63	8.8
J7M-AM-1	**J7K-AMA(..)**	0.25	0.81	1.0	100	0.63 - 1.0	14.0
J7M-AM-1,6	**J7K-AMA(..)**	0.37	1.05	1.6	100	1.0 - 1.6	22.0
J7M-AM-1,6	**J7K-AMA(..)**	0.55	1.42	1.6	100	1.0 - 1.6	22.0
J7M-AM-2,5	**J7K-CM(..)**	0.75	1.86	2.5	100	1.6 - 2.5	35.0
J7M-AM-4	**J7K-CM(..)**	1.1	2.65	4.0	100	2.5 - 4.0	56.0
J7M-AM-4	**J7K-CM(..)**	1.5	3.6	4.0	100	2.5 - 4.0	56.0
J7M-AM-6,3	**J7K-CM(..)**	2.2	5.2	6.3	100	4.0 - 6.3	88.0
J7M-AM-10	**J7K-CM(..)**	3.0	6.8	10.0	100	6.3 - 10.0	140.0
J7M-AM-10	**J7K-CM(..)**	4.0	8.8	10.0	100	6.3 - 10.0	140.0
J7M-AM-16	**J7K-CM(..)**	5.5	11.4	16.0	16	10.0 - 16.0	224.0
J7M-AM-16	**J7K-CM(..)**	7.5	15.4	16.0	16	10.0 - 16.0	224.0
J7M-AM-25	**J7K-CMA(..)**	11.0	22.1	25.0	16	20.0 - 25.0	350.0

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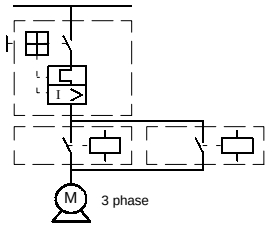
Type “2” coordinaton
400/415 V AC



Modules for reversing starter combinations

The reversing starter combinations constist of :
Motor-protective circuit-breaker and two contactors.

They conform to IEC 947-4-1, EN 60 947-4-1.
I_q = Rated conditional short-circuit current.

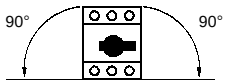
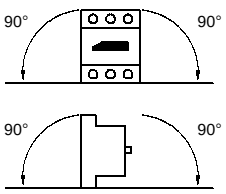


Motor-protective circuit-breaker	Contactor	Motor data		Rated uninterrupted current	Rated short-circuit current 380-415 V	Setting range	
		AC-3 380 V 400 V 415 V P (kW)	Rated operational current 400 V I_e (A)	I_u (A)	I_q (kA)	Overload release I_r (A)	Short-circuit release I_{rm} (A)
J7M-AM-0,25	2 x **J7K-AMA(..)**	0.06	0.2	0.25	100	0.16 - 0.25	3.5
J7M-AM-0,4	2 x **J7K-AMA(..)**	0.09	0.29	0.40	100	0.25 - 0.4	5.6
J7M-AM-0,63	2 x **J7K-AMA(..)**	0.12	0.4	0.63	100	0.4 - 0.63	8.8
J7M-AM-0,63	2 x **J7K-AMA(..)**	0.18	0.58	0.63	100	0.4 - 0.63	8.8
J7M-AM-1	2 x **J7K-AMA(..)**	0.25	0.81	1.0	100	0.63 - 1.0	14.0
J7M-AM-1,6	2 x **J7K-AMA(..)**	0.37	1.05	1.6	100	1.0 - 1.6	22.0
J7M-AM-1,6	2 x **J7K-AMA(..)**	0.55	1.42	1.6	100	1.0 - 1.6	22.0
J7M-AM-2,5	2 x **J7K-CM(..)**	0.75	1.86	2.5	100	1.6 - 2.5	35.0
J7M-AM-4	2 x **J7K-CM(..)**	1.1	2.65	4.0	100	2.5 - 4.0	56.0
J7M-AM-4	2 x **J7K-CM(..)**	1.5	3.6	4.0	100	2.5 - 4.0	56.0
J7M-AM-6,3	2 x **J7K-CM(..)**	2.2	5.2	6.3	100	4.0 - 6.3	88.0
J7M-AM-10	2 x **J7K-CM(..)**	3.0	6.8	10.0	100	6.3 - 10.0	140.0
J7M-AM-10	2 x **J7K-CM(..)**	4.0	8.8	10.0	100	6.3 - 10.0	140.0
J7M-AM-16	2 x **J7K-CM(..)**	5.5	11.4	16.0	16	10.0 - 16.0	224.0
J7M-AM-16	2 x **J7K-CM(..)**	7.5	15.4	16.0	16	10.0 - 16.0	224.0
J7M-AM-25	2 x **J7K-CMA(..)**	11.0	22.1	25.0	16	20.0 - 25.0	350.0

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Specifications

General

Typ		J7M-AM	J7M-BM
Standards		IEC 947, EN 60947, DIN VDE 0660, UL 508 , CSA C 22.2 No. 14, GL, LRs, DNV, PRS, BV, RINA, RS	
Climatic proofing		Damp heat, constant, to IEC 68 Part 2-3 Damp heat, cyclic, to IEC 68 Part 2-30	
Ambient temperature	Storage	min. -25 °C/ max. + 70 °C	min. -25 °C/ max. + 70 °C
	Open	min. -25 °C/ max. + 55 °C	min. -25 °C/ max. + 60 °C
Mounting position			
Direction of incoming supply		As required	
Degree of protection to IEC 947 (terminals)		IP20 (IP00)	IP20
Protection against electric shock		Finger- and back-of-hand proof	
Mechanical shock resistance	Half-sinusoidal shock 10 ms	25 g	–
	Half-sinusoidal shock 20 ms	–	30 g
Altitude		2000 m	
Terminal capacities	1 conductor (solid); min./max.	1 - 6 mm^2	-
	1 conductor (solid), stranded; min./max.	-	1.0/16
	1 conductor (flexible with ferrule); min./max.	1 - 4 mm^2	1.5/10
	2 conductor (solid); min./max.	1 - 2.5 mm^2	-
	2 conductor (solid), stranded; min./max.	-	1.0/6
	2 conductor (flexible with ferrule); min./max.	1 - 2.5 mm^2	1.5/6
		18 - 10 AWG	14/6 AWG
Specified tightening torque for terminal screws	Main cable	1.7 Nm	1.8 Nm
	Control circuit cable	1.0 Nm	1.0 Nm

Main contacts

Typ			J7M-AM	J7M-BM
Rated impulse withstand voltage U_{imp}			6000 V	
Overvoltage category / pollution degree			III/3	
Rated operational voltage U_e			690 V AC	
Rated uninterrupted current I_u = rated operational current Ie			25 A or setting current of overload release	40 A
Rated frequency			40 - 60 Hz	50 - 60 Hz
Number of poles			3	3
Current heat losses (3-pole at operational temperature)			6 W	14 W
Lifespan	mechanical		0.1 x 10^6 Operations	0.1 x 10^6 Operations
	electrical	(100 %; AC-3/400 V)	0.1 x 10^6 Operations	0.05 x 10^6 Operations
Max. operating frequency			40 Ops./hour	60 Ops./hour
Motor switching capacity	AC-3		max. 690 V AC	max. 690 V AC
	DC-5		max. 250 V DC	max. 250 V DC
			–	max. 40 A DC
Rated short-circuit breaking capacity I_{cn}	250 V DC; L/R = 15 ms		–	30 kA
	125 V DC; L/R = 15 ms		–	50 kA
Operating times under short-circuit conditions	Minimum command time		–	Approx. 2 ms
	Opening delay		–	Approx. 0.5 ms
	Total opening time		–	Approx. 6 ms

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Trip blocks

Typ		J7M-AM	J7M-BM
Temperature compensation	IEC 947, EN 60947, DIN VDE 0660	min. - 5 °C/ max. + 40 °C	min. - 5 °C/ max. + 40 °C
	Operating range	min. - 25 °C/ max. + 55 °C	
Temperature compensation residual error to IEC 947, EN 60947, DIN VDE 0660		≤ 0.25 - 0.4 %/K	0.25 %/K
Adjustable overload releases		0.6 - 1 x I_u	
Fixed short-circuit releases		14 x I_u	-
Adjustable short-circuit releases		-	8.5 - 14 x I_u
Short-circuit release tolerance		± 20 %	
Single-phasing sensitivity		IEC 947-4-1, EN 60947-4-1, DIN VDE 0660 Part 102	

Current limiter

Typ	J7MA-CL	-
Rated impulse withstand voltage U_{imp}	6000 V	-
Overvoltage category / pollution degree	III/3	-
Rated operational voltage U_e	440 V AC	-
Rated uninterrupted current I_u	63 A	-

Terminal for three-phase commoning link

Typ	J7MA-TC25/3	J7MB-TC50/3
Rated impulse withstand voltage U_{imp}	6000 V	6000 V
Overvoltage category/pollution degree	III/3	III/3
Rated operational voltage U_e	690 V AC	690 V AC
Rated uninterrupted current I_u	63 A	120 A

Three-phase commoning links

Typ	J7MA-L3-...	J7MB-L3-...
Rated impulse withstand voltage I_{imp}	6000 V	6000 V
Overvoltage category/pollution degree	III/3	III/3
Rated operational voltage U_e	690 V AC	690 V AC
Rated uninterrupted current I_u	63 A (J7MA-L3-./.)	120 A (3 x 40 A) (J7MB-L3-1/3) 120 A (J7MB-L3-1/2)

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Auxiliary contact modules

Typ			J7M-AM	J7M-BM
Rated impulse withstand voltage U_{imp}			6000 V (4000 for J73M-AM-11-E)	6000 V
Overvoltage category/pollution degree			III/3	III/3
Rated operational voltage U_e			500 V AC, 250 V DC	500 V AC
Safe isolation to DIN VDE 0106 Part 101 and Part 101 A1 between auxiliary contacts and main contacts			690 VAC	–
Rated operational current I_e	AC-15	220-240 V	3.5 A (1 A for J73M-AM-11-E)	–
		380-415 V	2 A	–
		440-500 V	1 A	–
	AC-15 (J73M-BM-11)	230-240 V	–	6 A
		400-415 V	–	3 A
		440-500 V	–	1.5 A
	AC-15 (J7MB-TI-11)	230-240 V	–	5 A
		400-415 V	–	3 A
		440-500 V	–	1.5 A
	DC-13 (L/R ≤ 100 ms)	24 V	2 A	–
		60 V	1.5 A (1 A for J73M-AM-11-E)	–
		110 V	1 A (0.5 A for J73M-AM-11-E)	–
		220 V	0.25 A	–
Component lifespan	mechanical	J73M- j M-11	0.1 x 10^6 Ops.	0.1 x 10^6 Ops.
		J73M-AM-11-E	0.1 x 10^6 Ops.	–
		J7M j -TI-..	0.01 x 10^6 Ops.	0.01 x 10^6 Ops.
	electricial	J73M- j M-11	0.01 x 10^6 Ops.	0.05 x 10^6 Ops.
		J73M-AM-11-E	0.1 x 10^6 Ops.	–
		J7M j -TI	5 x 10^3 Ops.	5 x 10^3 Ops.
Control circuit reliability Fault probability H_F at rated operational voltage 24 V DC		U_{min} = 17 V, I_{min} = 5.4 mA	< 10^{-8}, < fault in 1 x 10^8 operations	–
		U_{min} = 24 V, I_{min} = 10 mA	–	Fail-safe over the entire mechanical lifespan
Interlocked opposing contacts to ZH 1/457			J73M-AM-11	J7MB-TI-11
Short-circuit rating without welding	Fuseless		Please enquire	240 V (J7M-AM-6,3)
			–	415 V (J7M-AM-4)
			–	500 V (J7M-AM-1,6)
	Fuse		10 A gL	10 A gL
Terminal capacities	1 conductor or 2 conductors solid or flexible with ferrule		min. 0.75 mm^2 - max. 2.5 mm^2 (min. 0.75 mm^2 - max. 1.5 mm^2 for J73M-AM-11-E) min. 18 AWG - max. 14 AWG (min. 18 AWG - max. 16 AWG for J73M-AM-11-E)	min. 0.75 mm^2 - max. 2.5 mm^2 min. 22 AWG - max. 14 AWG

Voltage release

Typ		J7MA-U	J7MB-U
Rated impulse withstand voltage U_{imp}		6000 V	
Overvoltage category/pollution degree		III/3	
Rated operational voltage U_e		42 - 480 V AC 24 - 250 V DC	24 - 600 V AC 24 - 125 V DC
Terminal capacities	1 conductor or 2 conductors solid or flexible with ferrule	min. 0.75 mm^2 - max. 2.5 mm^2 min. 18 AWG - max. 14 AWG	min. 0.75 mm^2 - max. 2.5 mm^2 min. 22 AWG - max. 14 AWG

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Shunt release

Typ		J7MA-SR	-
Operating range	AC	0.7-1.1 x U_S	-
	DC (intermittent operaton: 5 s)	0.7-1.1 x U_S	-
Power consumption	Pull-in AC	5 VA	-
	Holding AC	3 VA	-
	Pull-in DC	3 W	-
	Holding DC	3 W	-

Undervoltage release

Typ		J7MA-U	J7MB-U
Pick-up voltage		0.85 x U_S	-
Drop-out voltage		0.7 - 0.35 x U_S	0.7 - 0.35 x U_S
Power consumption	Pull-in AC	5 VA	5 VA
	Holding AC	3 VA	3 VA
	Pull-in DC	-	3 W
	Holding DC	-	3 W

Switching capacity to IEC 947-4-1, coordination types "1" and "2" and to IEC 947-2 Motor-protective circuit-breaker J7M-AM

Rated uninterrupted current I_u
Rated conditional short-circuit current I_q (IEC 947-4-1)
Rated ultimate short-circuit breaking capacity I_{cu} (IEC 947-2)
Rated service short-circuit breaking capacity I_{cs} (IEC 947-2)

	230 V				400 V				440 V				500 V				690 V			
I_u A	I_q (kA)	I_{cu} (kA)	I_{cs} (kA)	A [2]	I_q (kA)	I_{cu} (kA)	I_{cs} (kA)	A [2]	I_q (kA)	I_{cu} (kA)	I_{cs} (kA)	A [2]	I_q (kA)	I_{cu} (kA)	I_{cs} (kA)	A [2]	I_q (kA)	I_{cu} (kA)	I_{cs} (kA)	A [2]
0.16-1.0	[1]																			
1.6																				
2.5																	5	5	5	50
4.0																	3	3	3	50
6.3													6	6	6	50	3	3	2	50
10.0									10	10	10	50	6	6	6	50	3	3	2	50
16.0	16	16	8	50	16	16	8	50	10	10	10	50	6	6	6	50	3	3	2	50
20.0	16	16	8	50	16	16	8	50	10	10	10	50	6	6	6	50	3	3	2	50
25.0	16	16	8	50	16	16	8	50	10	10	10	50	6	6	6	50	3	3	2	50

J7M-AM + J7MA-CL

0.16-1.0	[1]	N [3]	[1]	N [3]	[1]	N [3]	[1]			N [3]	[1]			A [4]	N [3]
1.6		N [3]		N [3]		N [3]				N [3]				A [4]	N [3]
2.5		N [3]		N [3]		N [3]				N [3]	20	20		A [4]	N [3]
4.0		N [3]		N [3]		N [3]				N [3]	20	20		A [4]	N [3]
6.3		N [3]		N [3]		N [3]	50	50	50	N [3]	20	20		A [4]	N [3]
10.0		N [3]		N [3]		N [3]	20	20	20	N [3]	20	20		A [4]	N [3]
16.0		N [3]		N [3]		N [3]	20	20	20	N [3]	5	5		A [4]	N [3]
20.0		N [3]		N [3]		N [3]	10	10	10	N [3]	5	5		A [4]	N [3]
25.0		N [3]		N [3]		N [3]	10	10	10	N [3]	5	5		A [4]	N [3]

Note:
1. No upstream protective device required, inherently short-circuit-proof range (100 kA)
2. Back-up fuse required when the fault current exceeds the rated short-circuit breaking capacity of the motor-protective circuit-breaker $I_{cc} > I_{cn}$
   The rated conditional short-circuit current I_q depending on the fuse used:
   50 A gL: I_q = 100 kA
   100 A gL: I_q = 30 kA
3. N = Not necessary
4. A = Please, ask for more information

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Switching capacity to IEC 947-4-1, coordination types “1” and “2” and to IEC 947-2
Motor-protective circuit-breaker J7M-BM

Rated uninterrupted current I_u
Rated conditional short-circuit current I_q (IEC 947-4-1)
Rated ultimate short-circuit breaking capacity I_{cu} (IEC 947-2)
Rated service short-circuit breaking capacity I_{cs} (IEC 947-2)

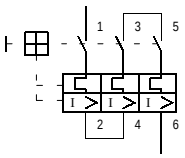
	230 V				400 V				440 V				500 V				690 V			
I_u A	I_q (kA)	I_{cu} (kA)	I_{cs} (kA)	⌸ A 2)	I_q (kA)	I_{cu} (kA)	I_{cs} (kA)	⌸ A 2)	I_q (kA)	I_{cu} (kA)	I_{cs} (kA)	⌸ A 2)	I_q (kA)	I_{cu} (kA)	I_{cs} (kA)	⌸ A 2)	I_q (kA)	I_{cu} (kA)	I_{cs} (kA)	⌸ A 2)
10.0	1)		30	1)			30	1)	10	10	5	80	7	7	3.5	80	4.5	4.5	2.5	80
16.0			30				30		10	10	5	100	7	7	3.5	100	4.5	4.5	2.5	100
25.0	30	30	7.5	160	30	30	7.5	160	10	10	5	125	7	7	3.5	125	4.5	4.5	2.5	125
32.0	30	30	7.5	160	30	30	7.5	160	10	10	5	160	7	7	3.5	160	4.5	4.5	2.5	160
40.0	30	30	7.5	160	30	30	7.5	160	10	10	5	160	7	7	3.5	160	4.5	4.5	2.5	160

Note: 1. No upstream protective device required, inherently short-circuit-proof range (100 kA)

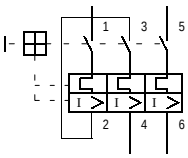
2. Back-up fuse required when the fault current exceeds the rated short-circuit breaking capacity of the motor-protective circuit-breaker $I_{cc} > I_{cn}$

1- and 2-pole circuits for J7M-AM and J7M-BM devices used for DC and AC switching

1-pole



2-pole



Protection of PVC-insulated cables against thermal overload in fault conditions

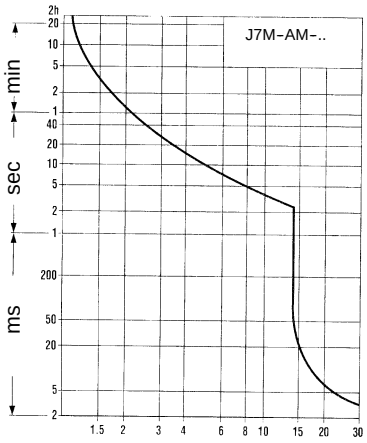
The tables shows which minimum cable cross-sections are protected by J7M devices up to their rated short-circuit current I_q.

Device type	Min. cross-section protected 380-415 V, 50 Hz, Cu mm²				
Device type	**4.0**	**2.5**	**1.5**	**1.0**	**0.75**
J7M-AM-0.16	X	X	X	X	X
⋮					
J7M-AM-6.3	X	X	X	X	X
J7M-AM-10	X	X	X	X	
J7M-AM-16	X	X	X		
J7M-AM-20	X	X	X		
J7M-AM-25	X	X			
J7M-BM-10	X	X	X		
J7M-BM-16	X	X			
J7M-BM-25	X				
J7M-BM-32	X				
J7M-BM-40	X				

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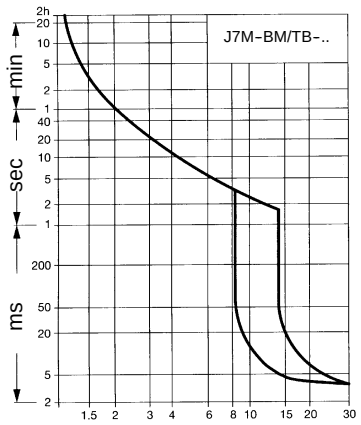
Engineering Data

J7M-AM
Tripping characteristics
motor-protective circuit-breakers



x Rated operational current →

J7M-BM
Tripping characteristics
motor-protective circuit-breakers



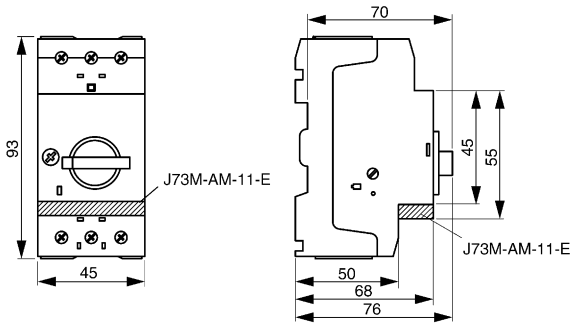
x Rated operatonal current →

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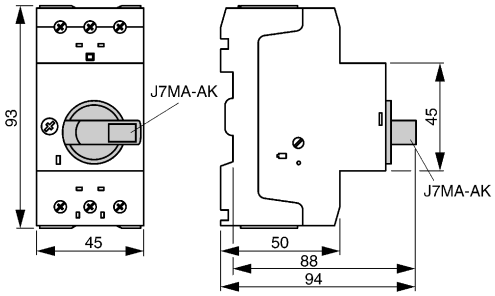
Dimensions

J7M-AM system

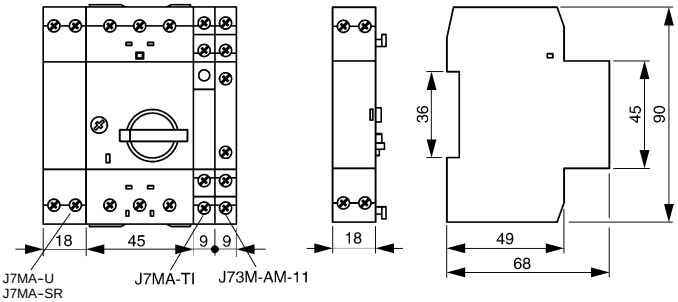
Motor-protective circuit-breaker J7M-AM-.. + J73M-AM-11-E



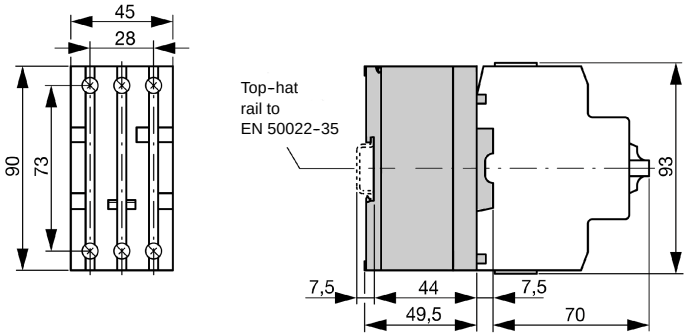
Motor-protective circuit-breaker with lockable rotary handle J7M-AM-.. + J7MA-AK



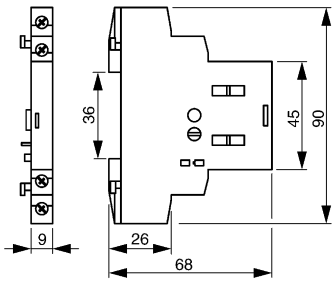
Voltage releases J7MA-U J7MA-SR



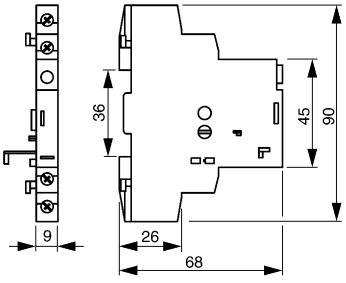
Current limiter J7MA-CL



Standard auxiliary contact module J73M-AM-11

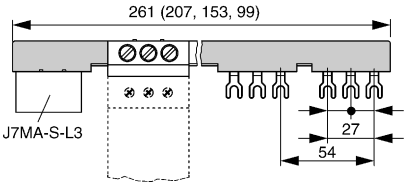


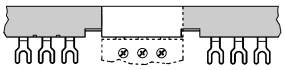
Trip-indicating auxiliary contact module J7MA-TI-..



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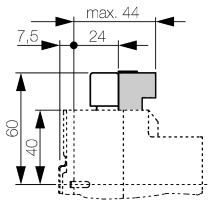
Three-phase commoning link J7MA-L3-(1/5, 1/4, 1/3, 1/2)

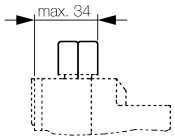




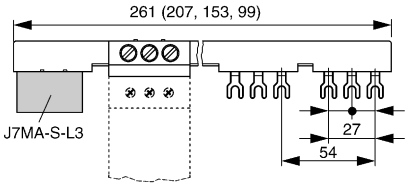
Overlapping mounting to extend three-phase commoning link

Terminal J7MA-TC25/3

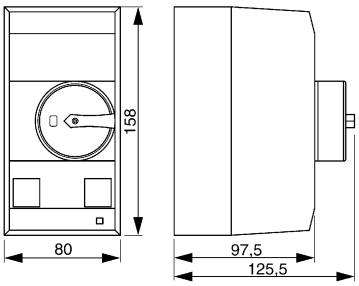




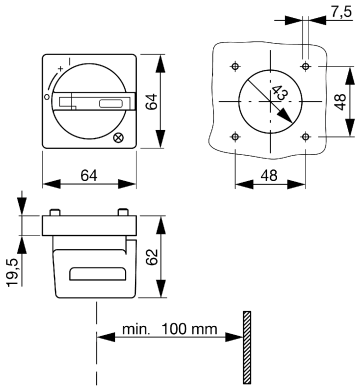
Shroud for unused terminals J7MA-S-L3

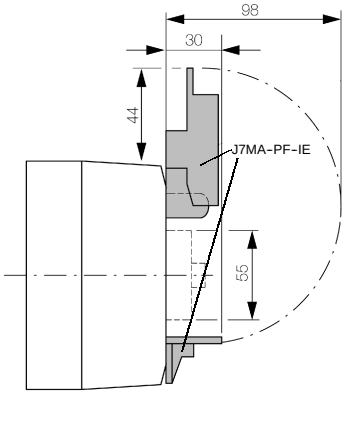


J7MA-IE-G(R) Insulated enclosures for surface mounting J7MA-PF-IE Padlocking facility

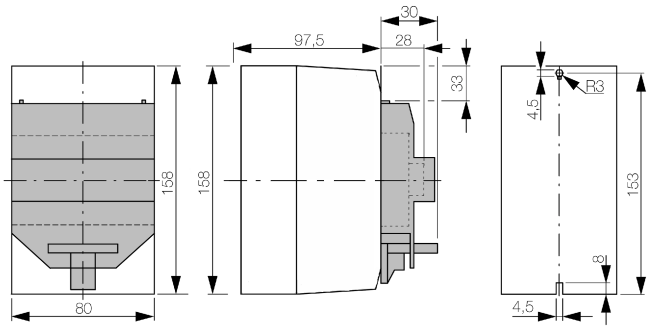


Door coupling handle J7MA-RH

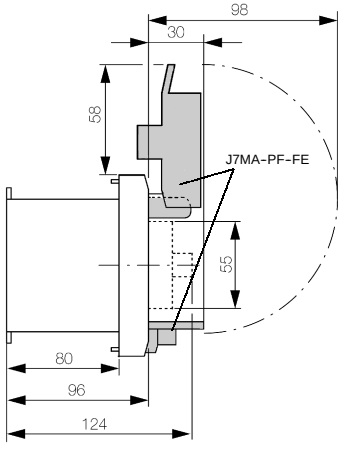


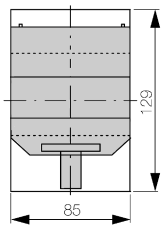


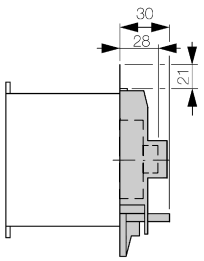
Drilling dimensions



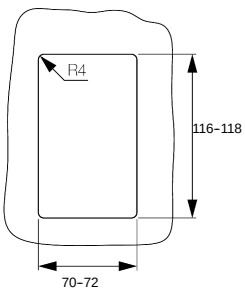
J7MA-FE-GR Insulated enclosures for flush mounting J7MA-PF-FE Padlocking facility







Mounting aperture

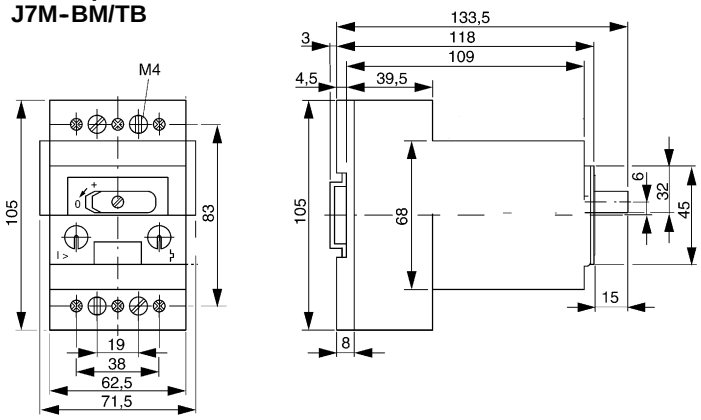


Aperture for 2-6 mm panel thickness

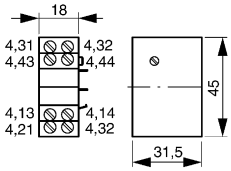
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J7M-BM system

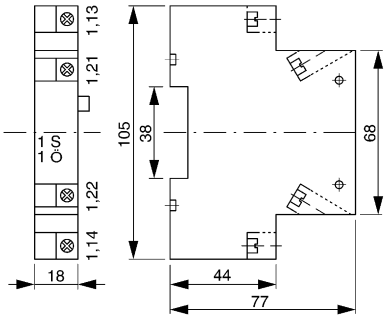
Motor-protective circuit-breakers J7M-BM/TB



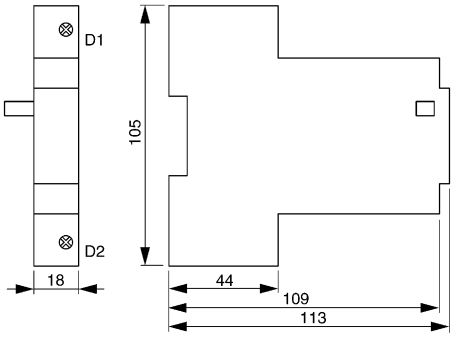
Trip-indicating contact module J7MB-TI-11



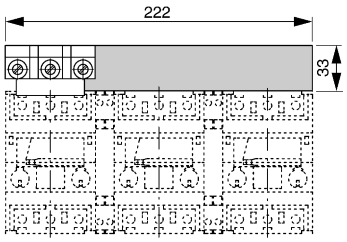
Standard auxiliary contact module J73M-BM-11



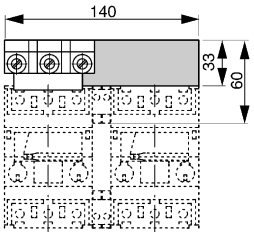
Undervoltage release J7MB-U



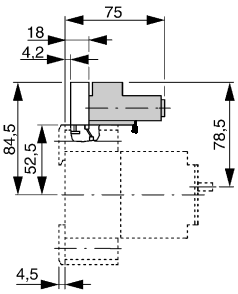
Three-phase commoning link J7MB-L3-1/3



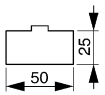
J7MB-L3-1/2



Terminal J7MB-TC50/3



Shroud for unused terminals J7MB-S-L3



ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.
To convert millimeters into inches or grams into ounces, please see page 107.

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