

Type MS325

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MS325-1.0

Manual motor protectors — Type MS325

Thermal setting range (Amps)	Single-phase horsepower ratings ①		3-phase horsepower ratings			Catalog number	List price
	120V	240V	240V	480V	600V		
0.10 – 0.16	—	—	—	—	—	MS325-0.16 MS325-0.25 MS325-0.40 MS325-0.63	\$ 144
0.16 – 0.25	—	—	—	—	—		
0.25 – 0.40	—	—	—	—	—		
0.40 – 0.63	—	—	—	—	—		
0.63 – 1.0	—	—	—	1/2	1/2	MS325-1.0 MS325-1.6 MS325-2.5 MS325-4.0 MS325-6.3	165
1.0 – 1.6	—	1/10	—	3/4	3/4		
1.6 – 2.5	—	1/6	1/2	1	1.5		
2.5 – 4.0	1/8	1/3	1	2	3		
4.0 – 6.3	1/4	1/2	1.5	3	5		
6.3 – 9.0	1/3	1	2.5	5	7.5	MS325-9.0 MS325-12.5 MS325-16	192
9.0 – 12.5	1/2	2	3	7.5	10		
12.5 – 16	1	2.5	5	10	10		
16 – 20	1.5	3	5	10	15	MS325-20	211.50
20 – 25	2	3	7.5	15	20	MS325-25	223.50

MS325 UL File #E137861
Accessories UL File #E90353

① Single phase motor ratings are based upon wiring all three poles in series.

Type MS325 UL 508E

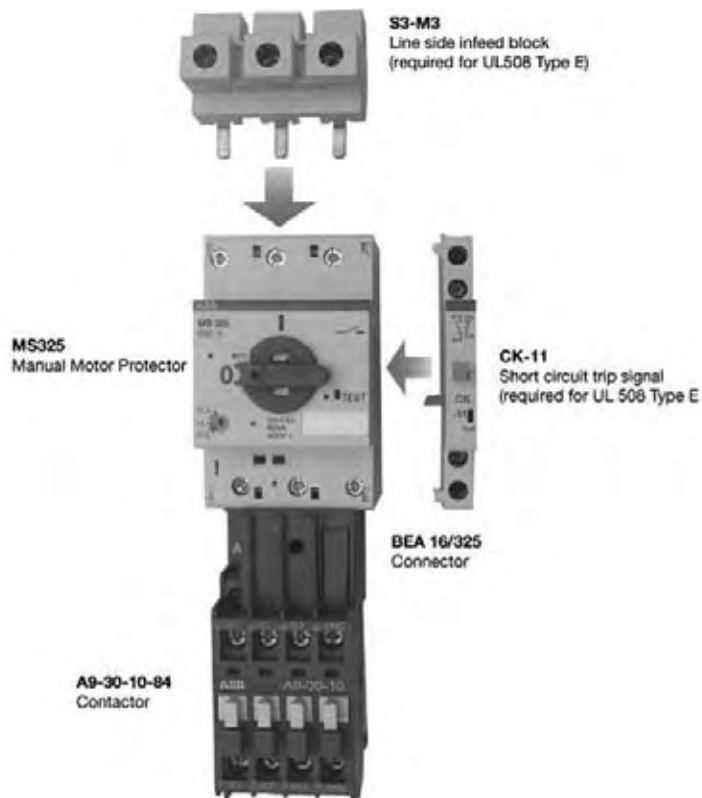


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Manual motor protectors — Type MS325

Thermal setting range (Amps)	Single-phase horsepower ratings ①		3-phase horsepower ratings			Catalog number ②	List price
	120V	240V	240V	480V	600V		
0.10 – 0.16	—	—	—	—	—	MS325-0.16E MS325-0.25E MS325-0.40E MS325-0.63E	\$ 223
0.16 – 0.25	—	—	—	—	—		
0.25 – 0.40	—	—	—	—	—		
0.40 – 0.63	—	—	—	—	—		
0.63 – 1.0	—	—	—	1/2	1/2	MS325-1.0E MS325-1.6E MS325-2.5E MS325-4.0E MS325-6.3E	244
1.0 – 1.6	—	1/10	—	3/4	3/4		
1.6 – 2.5	—	1/6	1/2	1	1.5		
2.5 – 4.0	1/8	1/3	1	2	3		
4.0 – 6.3	1/4	1/2	1.5	3	5		
6.3 – 9.0	1/3	1	2.5	5	7.5	MS325-9.0E MS325-12.5E MS325-16E	271
9.0 – 12.5	1/2	2	3	7.5	10		
12.5 – 16	1	2.5	5	10	10		
16 – 20	1.5	3	5	10	15	MS325-20E	290
20 – 25	2	3	7.5	15	20	MS325-25E	302

MS325 UL File #E137861
Accessories UL File #E90353
Class 10 overload
Short circuit rating of 18kA



① Single phase motor ratings are based upon wiring all three poles in series.
② Part includes MMP, barrier and trip signal.

Type MS325 Accessories

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MS325-HK11



MS325-HKF11



MS325-UA24



MS325-AS



MS325-SA1



MS325-SA3

Auxiliary contact blocks for Type MS325 (side mount)

Item description	Catalog number	List price
1 NO & 1 NC 2 NO 2 NC	MS325-HK11 MS325-HK20 MS325-HK02	\$ 33

Auxiliary contact blocks for Type MS325 (front mount)

Item description	Catalog number	List price
1 NO & 1 NC 2 NO	MS325-HKF11 MS325-HKF20	\$ 33

Bell alarm contact blocks for Type MS325

Item description	Catalog number	List price
1 NO 1 NC	MS325-SK10 MS325-SK01	\$ 33

Shunt trips for Type MS325

Item description	Catalog number	List price
110 – 240 VAC/VDC, 60 Hz 24 – 60 VAC/DC, 60 Hz	MS325-ST110 MS325-ST24	\$ 82.50

Undervoltage trip for Type MS325

Item description	Catalog number	List price
24V 48V 60V 110V 230V 400V 415V 480V	MS325-UA24 MS325-UA48 MS325-UA60 MS325-UA110 MS325-UA230 MS325-UA400 MS325-UA415 MS325-UA480	\$ 82.50

Remote control unit

Item description	Catalog number	List price
Electrically operated remote control unit for MS325. For use up to MS325-16 and below. Not for use with MS325-20 & MS325-25. Provided with 1 NO & 1 NC auxiliary contacts and 1NO trip signal contacts	24V AC/DC 48V AC/DC 60V AC/DC 110V AC/DC 230V AC/DC RC325-24V RC325-48V RC325-60V RC325-110V RC325-230V	\$ 165

NOTE: May not be used with HFK, SK, ST or UV accessories

Supporting terminal for Type MS325

Item description	Catalog number	List price
for UA or as N/LS clamp	MS325-AS	\$ 15

Padlocking devices for Type MS325

Item description	Catalog number	List price
Adapter for padlock type SA1	MS325-SA1	\$ 15.00
Complete padlock kit (includes adaptor, padlock & 3 keys)	MS325-SA3	37.50

Type MS325 Accessories



Switch cubicle mounting kit



MS325-BB1



MS325-SM1



PS3-2-0



PS3-4-0



MS325 coupled to mini-contactor

Molded plastic enclosures for Type MS325

Item description	Protection level	Catalog number	List price
Light gray enclosure with black handle	IP64	OTPA325B2P1	\$ 75
Light gray enclosure with red/yellow handle	IP64	OTPA325A2P1	75
Gray enclosure w/clear lid, 4 module	IP55	12644	84
Gray enclosure w/clear lid, 6 module	IP55	12646	98
Gray enclosure with black handle	IP65	IB325-G	75
Yellow enclosure with red handle	IP65	IB325-Y	75

NOTE: Use Discount schedule MA for IP64 & IP65 enclosures; use Discount schedule CB8 for IP55 enclosures.

Plastic adaptors for enclosures for Type MS325

Item description	Catalog number	List price
PG16 TO 1/2 NPT	PG16-1/2 NPT	\$ 10

Selector handles for through-the-door operation for Type MS325 ①

Item description	Catalog number	List price
Shaft coupler	MSMN	\$ 15
NEMA 1, 3R, 12 black selector handle	OHB2AJ	30
NEMA 1, 3R, 12 red/yellow selector handle	OHY2AJ	30
4.1" length shaft	OXS5X105	4
7.1" length shaft	OXS5X180	6

NOTE: Use Discount schedule MA for shaft coupler; use Discount schedule H6 for handles and shafts.

Power feed terminal blocks for Type MS325

Item description	Catalog number	List price
Standard, accepts 4 AWG wire	MS325-SM1	\$ 24
Low profile, accepts 4 AWG wire	MS325-BB1	25.50

Busbars for Type MS325 ②

Item description	Catalog number	List price
for 2 devices; without auxiliary switch	PS3-2-0	\$ 24
for 3 devices; without auxiliary switch	PS3-3-0	30
for 4 devices; without auxiliary switch	PS3-4-0	33
for 5 devices; without auxiliary switch	PS3-5-0	39
for 2 devices; with 1 auxiliary switch	PS3-2-1	30
for 3 devices; with 1 auxiliary switch	PS3-3-1	34.50
for 4 devices; with 1 auxiliary switch	PS3-4-1	37.50
for 5 devices; with 1 auxiliary switch	PS3-5-1	42
for 2 devices; with 2 auxiliary switches	PS3-2-2	30
for 4 devices; with 2 auxiliary switches	PS3-4-2	37.50

Busbars can be daisy chained to connect additional MS325s.

Close coupling adapters

Device	Catalog number	List price
MS325 + B6/B7 contactor	BEA7/325	\$ 12.00
MS325 + VB6/VB7 reversing contactor	MS325-VB7	
MS325 + A9, A12, A16 contactor	BEA16/325	13.50
MS325 + A26 contactor	BEA26/325	15.00
AL9 - AL16	BEA16/325AL	14.50
AL26	BEA26/325AL	16.00

UL 508 Type E Accessories – Required

Device	Catalog number	List price
Line side infeed block	S3-M3	\$ 30
Short circuit trip signal	CK-11	49

① Must have shaft coupler, handle and shaft for through-the-door operation.

② UL file # E167205; CSA file# LR98427M7-11

Technical data

Type MS325

Short circuit ratings

Short circuit ratings – MS325

Range	Short Circuit rating kA, 600VAC	Maximum Fuse size A
0.1 - 0.16	5	15
0.16 - 0.25	5	15
0.25 - 0.40	5	15
0.40 - 0.63	5	15
0.63 - 1.0	5	15
1.0 - 1.6	5	15
1.6 - 2.5	5	15
2.5 - 4.0	5	15
4.0 - 6.3	5	25
6.3 - 9.0	5	35
9.0 - 12.5	5	50
12.5 - 16	5	60
16 - 20	5	80
20 - 25	5	100

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Group installation short circuit ratings

MS325 Current range	5 kA		30 kA		50 kA		85kA
	Fuse A	MCCB	Fuse A	MCCB	Fuse A	MCCB	Fuse A
0.1 - 0.16	1600	S7H1200	1600	S7H1200	1600	S7H1200	1600
0.25 - 0.40	1600	S7H1200	1600	S7H1200	1600	S7H1200	1600
0.40 - 0.63	1600	S7H1200	1600	S7H1200	1600	S7H1200	1600
0.63 - 1.0	1600	S7H1200	1600	S7H1200	1600	S7H1200	1600
1.0 - 1.6	1600	S7H1200	1600	S7H1200	1600	S7H1200	1600
1.6 - 2.5	1600	S7H1200	1600	S7H1200	1600	S7H1200	1600
2.5 - 4.0	1600	S7H1200	1600	S7H1200	1600	S7H1200	1600
4.0 - 6.3	1600	S7H1200	1600	S7H1200	600	S7H1200	—
6.3 - 9.0	1600	S7H1200	1600	S7H1200	600	S7H1200	—
9.0 - 12.5	1600	S7H1200	1600	S7H1200	400	S4H250	—
12.5 - 16	1600	S7H1200	1600	S7H1200	400	S4H250	—
16 - 20	1600	S7H1200	1600	S7H1200	400	S4H250	—
20 - 25	1600	S7H1200	1600	S7H1200	400	S4H250	—

600V ②

0.1 - 0.16	1200	S7H1200	1200	S7H1200	1200	S7H1200	—
0.25 - 0.40	1200	S7H1200	1200	S7H1200	1200	S7H1200	—
0.40 - 0.63	1200	S7H1200	1200	S7H1200	1200	S7H1200	—
0.63 - 1.0	1200	S7H1200	1200	S7H1200	1200	S7H1200	—
1.0 - 1.6	1200	S7H1200	1200	S7H1200	1200	S7H1200	—
1.6 - 2.5	1200	S7H1200	1200	S7H1200	1200	S7H1200	—
2.5 - 4.0	1200	S7H1200	1200	S7H1200	1200	S7H1200	—
4.0 - 6.3	1200	S7H1200	1200	S7H1200	1200	S7H1200	—
6.3 - 9.0	1200	S7H1200	1200	S7H1200	250	S4H250	—
9.0 - 12.5	1200	S7H1200	1200	S7H1200	—	—	—
12.5 - 16	1200	S7H1200	1200	S7H1200	—	—	—
16 - 20	1200	S7H1200	250	S4H250	—	—	—
20 - 25	1200	S7H1200	250	S4H250	—	—	—

① Fuse: Rated 1600A, Listed Class L. All others, listed RK5. Both time delay fuses.

② Fuse: Rated 1600A, Listed Class L. All others, listed K5. Both time delay fuses.

