



TYPE MBS 25

MOTOR CIRCUIT PROTECTOR (MANUAL STARTER)

AEG





MBS 25 with UV Trip

TYPE MBS 25 APPLICATION DATA

Manual Disconnect with Short Circuit Trip

MBS 25 A Manual Disconnect and Starter, Type MBS, can fulfill the function of a Breaker/Disconnect in a combination starter. In such applications, instantaneous short circuit trip is usually desired. Type MBS standard instantaneous short circuit trip has higher interruption capability. Combination units

with MBS 25 were tested to IC5,000 A Amp 600V.

TYPE MBS 25 APPLICATION FEATURES

 Used as a manual motor starer, with the high short-circuit fault breaking capacity of a circuit breaker, in accordance with VDE 0600, IEC 292, and IEC 157-1.

 Single phase sensitivity and ambient temperature compensated thermal overload trip. (NEMA Class 10)

Main switch and emergency disconnect switch properties (Emergency stop with mushroom head activator optional).
Switch position indication with positive separation.

 Current limiter, type ID 50 option, add-on accessory. The rated breaking capacity with this combination, increases to 50 kA, 3 phase, 380 V.

Cost Effectiveness

 Economical and space saving, in a compact design with small dimensions (1³⁴" wide).

 Standardized cover sized for use in distribution applications for world wide use. Safety

• High operational safety factor. Compliance to VDE 0160 T 100, finger touch safety, and general safety standards of handling.

Quality

Relaible AEG standards of quality.
 Proven in the most difficult

application conditions. Standard quality check includes 100% cycle test and heater calibration check.

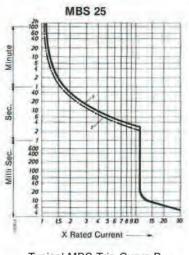
Flexibility

 Modular field assembly systems with plug-on auxiliary contacts.

 Designed to include field plug-on shunt or undervoltage trip within the switch unit frame.

Mounting

 Panel mount or DIN rail mount standard.
 Terminals are in the vertical plane, readily accessible from the front for easy wiring. Designed for the power screwdriver application and finger touch safety.



Typical MBS Trip Curve B



MBS 25-S4 Enclosure

Dual Application Description UL Listed Type MBS Circuit Protectors have two prote

Type MBS Circuit Protectors have two protective elements, one to provide magnetic instantaneous trip and the other to provide inverse time thermal trip. Because of this dual instantaneous and thermal trip, Type MBS Protectors have been successfully applied in protective circuits in thousands of applications throughout the world.

CONTINUOUS CURRENT RATINGS Type MBS 25 to 25 Amp

Thermal Trip for Motor Protection

A Thermal Trip for motor protection is also included with each Type MBS. In a combination starter application, then, a duplicate overload is not necessary. (See Trip Curve B).

To apply, select the proper Type MBS to match the motor horse power, and set dial at exact motor full load current. Each Type MBS includes a three pole direct heated bimetallic overload which covers a wide range and is equivalent to many old style separate heaters. A key advantage is the ability to set at exact motor full load current and thereby provide more precision motor protection.

Mounting

Type MBS can be panel mounted or rail mounted (MBS 25). For external operation, cutouts can be made in panel doors. Additionally, through the door operating handles with door interlocks are available on certain units.

Type MBS 25 UL Listed/CSA.



MBS 25-S4F Flush Plate



ECONOMICAL MOTOR CIRCUIT MBS25 PROTECTOR



MBS-25 Three Phase 3 Pole 600 Volt MCP + Manual Starter

	Three Phase Horse Power		Thermal Overlaod Relay Adjustment		Basic Catalog OPEN	OPEN		IC 5,000 AMP (480V) Group Fuse (UL) or Max CB Max Amps	High Fault Interrupting Current			
200V	230V	460V	575V	Range (AMP)*	No.	-0	-S4 >		IC	Fuse	IC	CB
1				0.25-0.4	MBS 25-D	\$69	\$101	1200	50kA	1200A	50kA	1200A
				0.463	MBS 25-E	69	101	1200	50kA	1200A	50kA	1200A
	1/4	1/2	1/2	.63-1.0	MBS 25-F	69	101	1200	50kA	1200A	50kA	1200A
1/4	1/3	3/4	1	1.0-1.6	MBS 25-G	69	101	1200	50kA	1200A	50kA	1200A
1/2	1/2	1	1-1/2	1.6-2.5	MBS 25-H	69	101	1200	25kA	150A	10kA	125A
3/4	1	2	3	2.5-4	MBS 25-1	69	101	1200	25kA	150A	10kA	125A
1-1/2	1-1/2	2 3 5	5	4-6	MBS 25-K	69	101	1200	25kA	150A	10kA	125A
2	3	5	7-1/2	6-10	MBS 25-L	80	112	1200	25kA	150A	10kA	125A
3	5	10	10	10-16	MBS 25-M	80	112	1200	25kA	150A	10kA	125A
5	7-1/2	15	15	16-20	MBS 25-N	90	122	1200	25kA	150A	10kA	125A
-	7-1/2	15	20	20-25	MBS 25-0	90	122	1200	25kA	150A	10kA	125A

Also includes fixed instantaneous magnetic trip Lower current ratings are available to 0.1 Amp. * See bottom of page for current limiter module.

MBS-25 Single Phase 2 Pole 600 Volt

One Phase Horse Power 115V 230V		Overload Relay Adjustment Range (AMP)*	Basic Catalog No.	OPEN -O	Outdoor Dust Tight Hose Test Water Tight -S4		
-		Smaller sizes available to 0.1 Amps					
	1/3	2.5-4	MBS 25-2P-I	\$69	\$101		
1/4	1/2	4-6	MBS 25-2P-K	69	101		
1/2	1-1/2	6-10	MBS 25-2P-L	80	112		
1	2	10-16	MBS 25-2P-M	80	112		
1-1/2	3	16-20	MBS 25-2P-N	90	122		
2	- Co. 11	20-25	MBS 25-2P-0	90	122		

▶ Type S4 Series Enclosures are non-metal outdoor completely dust tight. Sarlex Enclosures have been widely used throughout the world in dust tight, hose pressure water tight, and corrosion proof applications. (IP55)





Options

Current Limiter Rapid module type Id 50 $U_{\rm i}$ = 600V, $I_{\rm u}$ = 32A for combination with Mbs 25 Suitable for mounting in any position. For increasing of the fault breaking capacity of Mbs 25 up to 50 kA/3 - 380V max. For single and group back up protection. Rapid module type id 50 for single and group back up protection. Suitable for mounting in any position.

MBS25-140 \$50 LIST Type ID 50 Current Limiter Increases Interruption capacity to 50KA (380V)

Module Dimensions L-3,15", W-1,77", Depth 1.65"

Discount Schedule ST



MOTOR CIRCUIT PROTECTOR **MBS25 (MANUAL STARTER)**

AEG

\$50

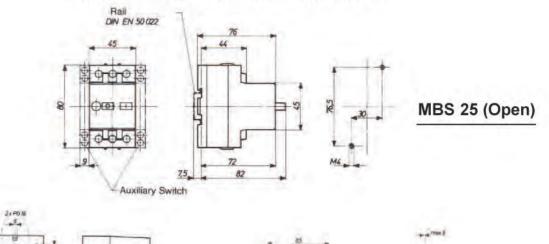
	E	NCLO	OSURES & ACCESSORIES	Catalog No.	List Price
P=10=10.			Enclosure Type S4 IP55 Dust/Watertight	MBS25-S4	\$32
			Flush Plate with Gasket IP55 Dust/Watertight	MBS25-S4F	\$16
man and the second s	-	N	Replacement Start/Stop Boot	MBS25-S4-116	\$8
AEG	AEG		Neutral Link for mounting above enclosures	MBS25-114	\$7
			Padlock Accessories for enclosures for	MBS25-105	\$18
	-		up to 3 padlocks use.		
Ball			PG Adaptor to 1/2" NPT Red Mushroom Operator for above enclosure IP55	PG16-1/2	\$5.80
A			Latch Type MR	MBS25-106	\$30
			Key Release MR	MBS25-107	\$61
S S 3			Momentary MR	MBS25-108	\$19
			Auxiliary Contacts Side Mount		
ALL AND	-		1 N.O., 1 N.C.	HS9.11	\$20
MBS	25-105 Lock Of	f Kit	2 N.O.	HS9.20	\$15
IND S	20-100 LOCK O	i INIC	1 N.O., 1 N.C. Early Activating	HS9V.11	\$25
			2 N.O. Early Activating	HS9V.20	\$17
ALL			Auxiliary Contacts Inside Mount 1 N.O., 1 N.C. TRIP Alarm Aux. Switch Inside mount	HS10.11	\$20
			1 N.O.	HS10R10	\$20
IBS 25 Accessories	Catalog	List	1 N.C.	HS10R01	\$20
inter to Accessories	No.	Price	SHUNT TRIP KIT * specify voltage	MBS25-101-*	\$48
ilot Light for above enclosures. Specify	MBS25-		* -A 120V 60 Hz 110V 50 Hz		
olor ** and voltage *	PL- * - **	\$16	-C 240V 60 Hz 220V 50 Hz		
ion one voltage			-D 380V 50 Hz -E 480V 60 Hz		
* Voltage Suffix **Color Suffix			-G 24V 60 Hz UNDERVOLTAGE TRIP * specify voltage	MBS25-100-*	\$48
-A 120V	oron oranina		see above	MEOLO 100	\$ 10

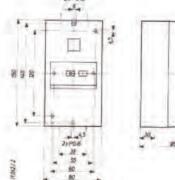
	* Voltage S
	-A 120V
	-C 220V
	-D 380V
	-E 480V
BRUUM	

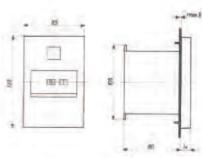
TIX	**Color Suffix				
	-G green				
	-R red				
	-Example:				
	MBS25-PL-A-R				

Combination Rail Mounting Brackets MBS25-206 Includes 2 DIN Rails to mount MBS25 and LS contactors **Current Limiter Rapid Module** MBS 25-140 For increasing fault current breaking capacity of MBS 25 up to 50 KA/3 380V max.

MBS 25 - Open / Enclosed Dimensions









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CONTROLS	MBS25 MOTOR / C PROTECTOR ACCE		AEG
MBS 25-209 MBS 25-208 MBS 25-208 MBS 25-208	bus Kions and Release Kit ME	S 25-105 Lock Off Kit	MBS 25-206
Starter carrier type pl 54 for snap-on to DIN rail 3 phase busbar block type d fully isolated, $U_i = 660V$, $l_u = 80A$	with 2 integral DIN rails for mounting of motor starter and contactor with 2 connections, length 99 mm with 3 connections, length 155 mm with 4 connections, length 208 mm with 5 connections, length 262 mm	MBS 25-206 MBS 25-210 MBS 25-240 MBS 25-207 MBS 25-208	\$15.00 \$16.00 \$16.00 \$22.00 \$25.00
Protection cover 3 pole Supply block type db fully isolated, $U_{\rm I}$ = 660V, $l_{\rm U}$ = 80A	for unused busbar terminations 3 pole for 3 phase busbar block type d	MBS 25-211 MBS 25-209	\$ 2.00 \$16.00

COMBINATION MANUAL MOTOR CONTROLS

(Din Rail or Screw Mount)

Three Phase 3 Pole 600 Volt

Three Phase Horse Power			c	Thermal Overlaod Relay Adjustment	Basic Catalog	OPEN	
200V	230V	460V	575V	Range (AMP)*	No.	LIST	
				0.25-0.4	MBS 25-D-L5K-*	\$182	
				0.463	MBS 25-E-L5K-*	182	
	1/4	1/2	1/2	.63-1.0	MBS 25-F-L5K-*	191	
1/4	1/3	3/4	1	1.0-1.6	MBS 25-G-L5K-*	191	
1/2	1/2	1	1-1/2	1.6-2.5	MBS 25-H-L5K-*	191	
3/4	1	2	3	2.5-4	MBS 25-I-L5K-*	191	
1-1/2	1-1/2	35	5	4-6	MBS 25-K-L5K-*	191	
2	3	5	7-1/2	6-10	MBS 25-L-L5K-*	191	
3	5	10	10	10-16	MBS 25-M-L5K-*	202	
5	7-1/2	15	15	16-20	MBS 25-N-L7K-*	205	
-	7-1/2	15	20	20-25	MBS 25-O-L11K-*	230	

- Combination Manual Motor Controls are an ideal way of having short circuit protection provided with Magnetic Instantaneous trip as well as inverse time thermal protection built into one compact package.

- To increase short circuit protection to 50KA add option ID50 - current limiter (380 Vac) max.

* Specify voltage suffix

-A	120V	60Hz	110V	50Hz
-C	240V	60Hz	220V	50Hz
-D	380V	50Hz		
-E	480V	60Hz		
-G	24V	60Hz		

Combination Rail Mounting Brackets Includes 2 DIN Rails to mount MBS25 and LS contactors MBS 25-206.

- The combination allows you to utilize all MBS 25 options including Remote Shunt Trip, Undervoltage Trip and additional auxiliaries if required. (Found on page 96.)



Discount Schedule ST