

## Housing set - HC-MOT-TML-SET - 1409066

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Motor connector for three-phase drive, metal housing with EMC sleeves incl. push-in contact insert, with screw connections (power and control circuit). With filler plugs in the control cable screw connection, 4-pos. control circuit, with star-delta bridge, with IP54 protective cover.



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	290.0 g
Custom tariff number	79070000
Country of origin	Germany

### Technical data

#### General

Degree of pollution	3
Overvoltage category	III
Insertion/withdrawal cycles	$\geq 100$
Size	MOT
Conductor cross section	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Power circuit)
	0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Control circuit)
Connection cross section AWG	20 ... 14
	20 ... 16
Stripping length of the individual wire	12 mm (Push-in Technology)

#### Ambient conditions

Ambient temperature (operation)	-30 °C ... 100 °C
Degree of protection	IP67

#### Material data

Flammability rating according to UL 94	V0
Seal material	EPDM

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## Technical data

### Material data

Housing material	GD-Zn
Contact material	Copper alloy
Contact surface material	Ag (power)/Au (signal)
Material of contact surface, power contact	Ag
Material of contact surface, control contact	Au
Contact carrier material	PA

### Electrical characteristics

Rated voltage for power contacts	400/800 V
Rated voltage (III/3)	250 V (Signal)
Rated surge voltage	6 kV (Phase/housing power circuit)
	8 kV (Phase/phase power circuit)
	4 kV (Control circuit)
Rated current	16.5 A (power contacts)
	2.5 A (control contacts)

### Technical data according to UL approval

Connection cross section, power contact (AWG)	14
Nominal voltage, power contact	600 V
Nominal current, power contact	16.5 A
Connection cross section, signal contact (AWG)	16
Nominal voltage, signal contact	250 V
Nominal current, signal contact	2.5 A

### Standards and Regulations

Flammability rating according to UL 94	V0
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## Classifications

### eCl@ss

eCl@ss 4.0	27140816
eCl@ss 4.1	27140816
eCl@ss 5.0	27143424
eCl@ss 5.1	27143424
eCl@ss 6.0	27143424
eCl@ss 7.0	27440209
eCl@ss 8.0	27440202
eCl@ss 9.0	27440202

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## Classifications

### ETIM

ETIM 4.0	EC000437
ETIM 5.0	EC000437

### UNSPSC

UNSPSC 6.01	30211923
UNSPSC 7.0901	39121522
UNSPSC 11	39121522
UNSPSC 12.01	39121522
UNSPSC 13.2	39121522

## Approvals

### Approvals

#### Approvals

UL Listed / cUL Listed / EAC / cULus Listed

#### Ex Approvals

#### Approvals submitted

### Approval details

UL Listed	
mm <sup>2</sup> /AWG/kcmil	16
Nominal current I <sub>N</sub>	10 A
Nominal voltage U <sub>N</sub>	600 V

cUL Listed	
mm <sup>2</sup> /AWG/kcmil	16

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## Approvals

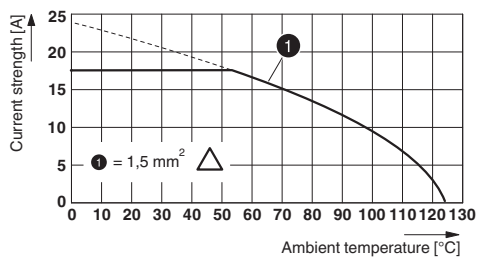
Nominal current I <sub>N</sub>	10 A
Nominal voltage U <sub>N</sub>	600 V

EAC

cULus Listed

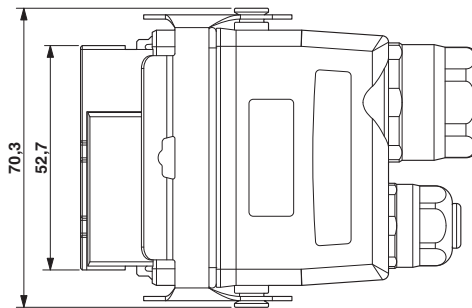
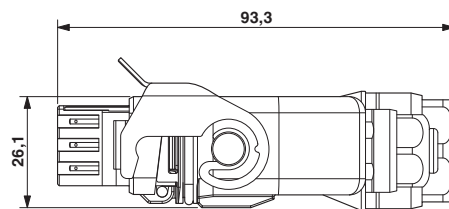
## Drawings

Diagram



Derating diagram

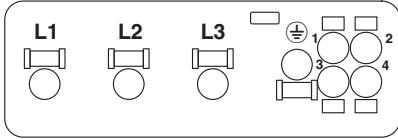
Dimensional drawing



Dimensional drawing

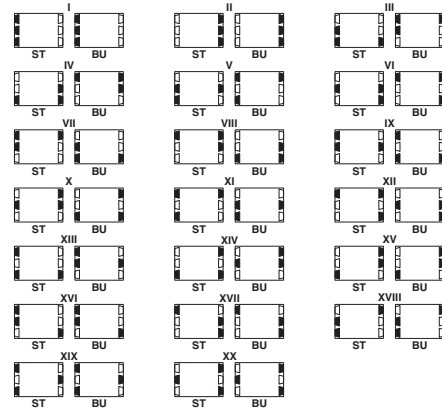
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Schematic diagram



Connector pin assignment, connection side

Schematic diagram



Coding scheme