Specifications

Eaton 192384

Catalog Number: 192384

Eaton Moeller® series EMS2 Reversing starter, 24 V DC, 0,18 - 3 A, Push in terminals, SmartWire-DT slave



General specifications

Product Name
Eaton Moeller® series EMS2 Reversing starter

Catalog Number
192384

EAN
4015081930814

Product Length/Depth
114.5 mm

Product Height
99 mm

Product Width
22.5 mm

Product Weight
0.297 kg

Certifications
UL508
IEC/EN 60947-4-2
UL File No.: E338590
UL Category Control No.: NLDX, NLDX7
UL 60947-4-1
CSA-C22.2 No. 60947-4-1-14
CE marking
UL listed
Certified by UL for use in Canada
UL report applies to both US and Canada

Powering Business Worldwide

Features & Functions

Functions

DOL starting
Temperature compensated overload protection
Motor protection
Reversing start
For connecting to SmartWire-DT for expanded diagnostics
Automatic reset
Display of Device Type
Manual reset
Display of Motor current in %
Display of Operating direction feedback
Operating the motor starter
Display of Operational readiness
Display of Overload prewarning
Display of Set short-circuit release value
Display of Thermal motor image in %
Display of Trip indications (overload, phase failure, etc.)

General

Class

CLASS 10

Connection to SmartWire-DT

Yes

Degree of protection

IP20
NEMA Other

Model

Reversing starter

Mounting method

Top-hat rail fixing (according to IEC/EN 60715, 35 mm)
Rail mounting possible

Mounting position

Vertical
Motor feeder at bottom

Overload release current setting - min

0.18 A

Overload release current setting - max

3 A

Product category

Electronic motor starter

Protocol

Other bus systems

Residual ripple

≤ 5 % (input voltage)

Terminal capacity

0.2 - 2.5 mm², Main cables, Push-in terminals

Terminal capacity (AWG)

24 - 14, Push-in terminals

Type

Reversing starter (complete device)

Voltage type

DC

Climatic environmental conditions

Electro magnetic compatibility

Ambient operating temperature - min

-5 °C

Ambient operating temperature - max

55 °C

Ambient storage temperature - min

40 °C

Ambient storage temperature - max

80 °C

Radio interference class

Class A (EN 61000-6-3, emitted interference, radiated)

EN 55011

Electrical rating

Inrush current

120 mA (draw)

Rated conditional short-circuit current (Iq), type 2, 380 V, 400 V, 415 V

0 A

Rated control supply current Is

60 mA

Rated control supply voltage

19.2 - 30 V DC

Rated control supply voltage (Us) at AC, 50 Hz - min

0 V

Rated control supply voltage (Us) at AC, 50 Hz - max

0 V

Rated control supply voltage (Us) at AC, 60 Hz - min

0 V

Rated control supply voltage (Us) at AC, 60 Hz - max

0 V

Rated control supply voltage (Us) at DC - min

24 V

Rated control supply voltage (Us) at DC - max

24 V

Rated operational current (Ie)

3 A

Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V

3 A

Rated operational current (Ie) at AC-51

3 A

Rated operational current (Ie) at AC-53A - max

3 A

Rated operational power at AC-3, 220/230 V, 50 Hz

0.55 kW

Rated operational power at AC-3, 380/400 V, 50 Hz

1.1 kW

Rated operational power at AC-53A, 380/400 V, 50 Hz

1.1 kW

Rated operational voltage

42 - 550 V

500 V AC

Switching level

-3 - 9.6 V DC, Switching level "Low", Actuating circuit (ON, L, R)

< 5 V DC, Switching level "confirm Off", Actuating circuit (ON, L, R)

19.2 - 30 V DC, Switching level "High", Actuating circuit (ON, L, R)

Contacts

Number of auxiliary contacts (normally closed contacts)

0

Number of auxiliary contacts (normally open contacts)

0

Design verification

Equipment heat dissipation, current-dependent Pvid

2.5 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

0 W

Rated operational current for specified heat dissipation (In)

3 A

Static heat dissipation, non-current-dependent Pvs

2 W

Heat dissipation details

If necessary, Allow for derating

10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects

Meets the product standard's requirements.

10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.2.7 Inscriptions

Meets the product standard's requirements.

10.3 Degree of protection of assemblies

Does not apply, since the entire switchgear needs to be evaluated.

10.4 Clearances and creepage distances

Meets the product standard's requirements.

10.5 Protection against electric shock

Does not apply, since the entire switchgear needs to be evaluated.

10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

10.8 Connections for external conductors

Is the panel builder's responsibility.

10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

10.10 Temperature rise

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

10.11 Short-circuit rating

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.12 Electromagnetic compatibility

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.13 Mechanical function

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Resources

Application notes

eaton-motor-starter-ems2-setting-motor-protection-twincat3-ap034001-en-us.pdf

Brochures

eaton-ems2-electronic-motorstarter-brochure-br034001en-en-us.pdf

Catalogs

Switching and protecting motors - catalog

Characteristic curve

eaton-contactors-ems2-reversing-starter-characteristic-curve.eps

eaton-contactors-ems2-reversing-starter-characteristic-curve-003.eps

Declarations of conformity

DA-DC-00004192.pdf

DA-DC-00003980.pdf

Drawings

eaton-contactors-ems2-reversing-starter-dimensions.eps

eaton-contactors-ems2-reversing-starter-3d-drawing.eps

eCAD model

DA-CE-ETN.EMS2-RO-T-3-SWD

Installation instructions

IL120004ZU

Installation videos

Eaton's electronic motor starter EMS2

Manuals and user guides

eaton-electronic-motor-starter-ems2-swd-manual-mn120008en-us.pdf

mCAD model

DA-CS-ems2_dos_ros_t_swd

DA-CD-ems2_dos_ros_t_swd

Sales notes

eaton-rmq-chemical-resistance-flyer-fl047011en-en-us.pdf

eaton-ems2-electronic-motorstarter-flyer-fl034007en-en-us.pdf



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