Eaton 134959

Eaton DS7 Soft starter, 200 A, 200 - 480 V AC, 24 V DC, Frame size: FS4,

Communication Interfaces: SmartWire-DT

Eaton DS7 Soft starter
134959
195 mm
215 mm
108 mm
3.7 kg
CE CSA-C22.2 No 0-M91 CSA-C22.2 No 14-05 UL 508 UkrSEPRO CSA22.2-14 UL GB 14048.6 CSA C-Tick IEC/EN 60947-4-2



ТҮРЕ	Soft starter for three- phase loads
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.
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	Does not apply, since the

DECLARATIONS OF	DA-DC-00003978.pdf
CONFORMITY	DA-DC-00004193.pdf
	eaton-softstarter-s811- ds7-brochure- br039001en-en-us.pdf
	eaton-ds7-soft-starter- mn03901001z-en-us.pdf
	eaton-semiconductor- contactors-swd-ds7-soft- starter-dimensions- 002.eps
	eaton-semiconductor- contactors-softstarter-ds7- 3d-drawing-007.eps

PROTECTION OF ASSEMBLIES	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	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
FITTED WITH:	Internal bypass contacts Internal bypass
POLLUTION DEGREE	2
CLASS	Other
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-3 Damp heat, cyclic, to IEC 60068-2-30
CONNECTION TO SMARTWIRE-DT	Yes
FRAME SIZE	FS4
ALTITUDE	Above 1000 m with 1 %
ALITIODE	derating per 100 m Max. 2000 m
AMBIENT OPERATING TEMPERATURE - MAX	0 1
AMBIENT OPERATING	Max. 2000 m
AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING	Max. 2000 m 40 °C
AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN AMBIENT STORAGE	Max. 2000 m 40 °C -5 °C

ASSIGNED MOTOR POWER AT 220/230 V, 60 HZ, 3-PHASE	75 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	150 HP
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	42 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	0 W
MAINS VOLTAGE - MAX	480 V
MAINS VOLTAGE - MIN	200 V
OUTPUT VOLTAGE	250 V AC (relay outputs)
NUMBER OF OUTPUTS	2 Relay Outputs (TOR, Ready)
SCREWDRIVER SIZE	0.6 x 3.5 mm, Terminal screws, Control circuit cables PZ2, 1 x 6 mm, Terminal screw, Standard
	screwdriver
VOLTAGE TYPE	screwdriver DC
VOLTAGE TYPE RATED OPERATIONAL VOLTAGE (UE) - MIN	
RATED OPERATIONAL	DC
RATED OPERATIONAL VOLTAGE (UE) - MIN RATED POWER THREE- PHASE MOTOR, INLINE, AT 230 V RATED POWER THREE-	DC 230 V
RATED OPERATIONAL VOLTAGE (UE) - MIN RATED POWER THREE- PHASE MOTOR, INLINE, AT 230 V RATED POWER THREE- PHASE MOTOR, INLINE,	DC 230 V 55 kW
RATED OPERATIONAL VOLTAGE (UE) - MIN RATED POWER THREE- PHASE MOTOR, INLINE, AT 230 V RATED POWER THREE- PHASE MOTOR, INLINE, AT 400 V RATED POWER THREE- PHASE MOTOR, INSIDE	DC 230 V 55 kW 110 kW
RATED OPERATIONAL VOLTAGE (UE) - MIN RATED POWER THREE- PHASE MOTOR, INLINE, AT 230 V RATED POWER THREE- PHASE MOTOR, INLINE, AT 400 V RATED POWER THREE- PHASE MOTOR, INSIDE DELTA, AT 230 V RATED POWER THREE- PHASE MOTOR, INSIDE	DC 230 V 55 kW 110 kW
RATED OPERATIONAL VOLTAGE (UE) - MIN RATED POWER THREE- PHASE MOTOR, INLINE, AT 230 V RATED POWER THREE- PHASE MOTOR, INLINE, AT 400 V RATED POWER THREE- PHASE MOTOR, INSIDE DELTA, AT 230 V RATED POWER THREE- PHASE MOTOR, INSIDE DELTA, AT 400 V STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT	DC 230 V 55 kW 110 kW 0 kW

Yes

 Soft starting of three-phase asynchronous motors

DDODUCT CATECORY	Consust Missa DT alaysa
PRODUCT CATEGORY	SmartWire-DT slave
PROTECTION	Finger and back-of-hand proof, Protection against direct contact
MOUNTING POSITION	Vertical
DROP-OUT VOLTAGE	0 - 3 V, DC operated
OVERVOLTAGE CATEGORY	II
DEGREE OF PROTECTION	NEMA 1 IP20
CURRENT CONSUMPTION	0,6 A/50 ms, Control circuit, Regulator supply at peak performance (close bypass) at 24 V DC 1.6 mA, Control circuit, Digital inputs, External 24 V 50 mA, Control circuit, Regulator supply
CURRENT LIMITATION	(0 - 8) x le, Soft start function
FUNCTIONS	Soft start function Current limitation, with PKE Potential isolation between power and control sections Suppression of DC components for motors Single direction Min. ramp time 1 s - fast switching (semiconductor contactor) Suppression of closing transients
DELAY TIME	0 - 30 s, Soft start function, Ramp times
OVERLOAD CYCLE	AC-53a: 3 - 5: 75 - 10
DROP-OUT TIME	350 ms, Control circuit, Digital Inputs, DC operated
PICK-UP VOLTAGE	17.3 - 27 V DC
RADIO INTERFERENCE CLASS	Class B (EN 55011)

	0.5
FAULT MEMORY	8 Faults
PICK-UP TIME	250 ms at DC
INTERFACES	SmartWire-DT (built-in)
RATED CONTROL VOLTAGE (UC)	24 V DC 24 V DC (-15 %/+10 %) or via SmartWire-DT
SUPPLY FREQUENCY	50/60 Hz, fLN, Main circuit
TERMINAL CAPACITY (STRANDED)	1 x (0.5 - 1.5) mm ² , Control circuit cables 1 x (4 - 185) mm ² , Main cables 2 x (0.5 - 1.0) mm ² , Control circuit cables 2 x (4 - 70) mm ² , Main cables
TERMINAL CAPACITY (COPPER BAND)	10 x 16 x 0.8 mm, Main cables 2 x 9 x 0.8 mm, Main cables
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	24 V
RATED OPERATIONAL CURRENT (IE) AT AC-11	1 A
RATED OPERATIONAL CURRENT (IE) AT AC-53	200 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	200 A
RATED OPERATIONAL POWER AT 220/230 V, 50 HZ	55 kW
RATED OPERATIONAL POWER AT 400 V, 50 HZ	110 kW

RATED OPERATIONAL VOLTAGE (UE) - MAX	480 V
VIBRATION RESISTANCE	2M2 to EN 60721-3-2
RAMP/RUN-UP TIME	1 - 30 s 30 s
SHOCK RESISTANCE	8 g, 11 ms, Mechanical
SUITABLE FOR	Branch circuits, (UL/CSA)
TIGHTENING TORQUE	0.4 Nm, Screw terminals, Control circuit cables 14 Nm (> 10 mm²) 5 Nm (≤ 10 mm²)
SHORT-CIRCUIT PROTECTION RATING	NZMN2-M200, Type "1" coordination, Main conducting paths 3 x 170M5008, Type "2" coordination (additional with the fuses for coordination type "1"), Main conducting paths
START VOLTAGE	Min. 30 %, Soft start function, Start voltage = turn-off voltage Max. 100 %, Soft start function, Start voltage = turn-off voltage
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.5 - 1.5) mm ² , Control circuit cables 2 x (0.5 - 0.75) mm ² , Control circuit cables
TERMINAL CAPACITY (SOLID)	2 x (4 - 70) mm², Main cables 1 x (0.5 - 2.5) mm², Control circuit cables 2 x (0.5 - 1.0) mm², Control circuit cables 1 x (4 - 185) mm², Main cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	2 x (21 - 18), Control circuit cables 1 x (21 - 14), Control circuit cables 2 x (12 - 00), Main cables 1 x (12 - 350 kcmil), Main cables

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
:	



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