## Specifications



## Photo is representative





## Eaton 134923

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

General specification	ons
PRODUCT NAME	Eaton DS7 Soft starter
CATALOG NUMBER	134923
MODEL CODE	DS7-340SX200N0-N
EAN	4015081317387
PRODUCT LENGTH/DEPTH	178 mm
PRODUCT HEIGHT	215 mm
PRODUCT WIDTH	108 mm
PRODUCT WEIGHT	3.7 kg
CERTIFICATIONS	CSA UkrSEPRO UL UL File No.: E251034 UL 508 C-Tick IEC/EN 60947-4-2 CSA Class No.: 321106 GB 14048.6 CSA-C22.2 No 0-M91 CSA-C22.2 No 14-05 CE CSA22.2-14 CSA File No.: 2511305
GLOBAL CATALOG	134923



Product specifications	
CONTROL VOLTAGE	24 Vac/Vdc control
PHASE	Three-phase
SPECIAL FEATURES	Internal bypass
ТҮРЕ	Soft starter for three- phase loads
VOLTAGE RATING	24 Vac/Vdc
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

Resources	
BROCHURES	eaton-softstarter-s811- ds7-brochure- br039001en-en-us.pdf
CATALOGS	Product Range Catalog Drives Engineering
DECLARATIONS OF CONFORMITY	DA-DC-00003978.pdf
	DA-DC-00004193.pdf
DRAWINGS	eaton-semiconductor- contactors-swd-ds7-soft- starter-dimensions.eps
	eaton-semiconductor- contactors-softstarter-ds7- 3d-drawing-006.eps
ECAD MODEL	<u>DA-CE-ETN.DS7-</u> <u>340SX200N0-N</u>
INSTALLATION INSTRUCTIONS	IL03902005Z2021 06.pdf
MANUALS AND USER GUIDES	<u>eaton-ds7-soft-starter-</u> <u>mn03901001z-en-us.pdf</u>
MCAD MODEL	DA-CS-ds7 4 100316
	DA-CD-ds7 4 100316
MULTIMEDIA	Soft starter DS7 up to 200 A

	be evaluated.
	Meets the product
10.2.7 INSCRIPTIONS	standard's requirements.
10.3 DEGREE OF PROTECTION OF	Does not apply, since the entire switchgear needs to
ASSEMBLIES	be evaluated.
10.4 CLEARANCES AND	Meets the product
CREEPAGE DISTANCES	standard's requirements.
10.5 PROTECTION AGAINST ELECTRIC	Does not apply, since the entire switchgear needs to
SHOCK	be evaluated.
10.6 INCORPORATION OF	Does not apply, since the
SWITCHING DEVICES AND COMPONENTS	entire switchgear needs to be evaluated.
10.7 INTERNAL	
ELECTRICAL CIRCUITS	Is the panel builder's responsibility.
AND CONNECTIONS	
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
10.9.2 POWER-	<del>-</del>
FREQUENCY ELECTRIC	Is the panel builder's responsibility.
STRENGTH	
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
10.9.4 TESTING OF	Is the panel builder's
ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
INSULATING MATERIAL	Internal bypass contacts
FITTED WITH:	Internal bypass
POLLUTION DEGREE	2
CLASS	Other
	Damp heat, constant, to
CLIMATIC PROOFING	IEC 60068-2-3 Damp heat, cyclic, to IEC
	60068-2-30
CONNECTION TO	No
SMARTWIRE-DT FRAME SIZE	FS4
I MAIVIL SIZE	Max. 2000 m
ALTITUDE	Above 1000 m with 1 %
	derating per 100 m
AMBIENT OPERATING TEMPERATURE - MAX	40 °C
AMBIENT OPERATING TEMPERATURE - MIN	-5 °C
AMBIENT STORAGE	60 °C
TEMPERATURE - MAX	00 C

TEMPERATURE - MIN	
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	60 HP
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
SERIES	Generation 7
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	AC/DC
RATED OPERATIONAL VOLTAGE (UE) - MIN	230 V
RATED POWER THREE- PHASE MOTOR, INLINE, AT 230 V	55 kW
RATED POWER THREE- PHASE MOTOR, INLINE, AT 400 V	110 kW
RATED POWER THREE- PHASE MOTOR, INSIDE DELTA, AT 230 V	0 kW
RATED POWER THREE- PHASE MOTOR, INSIDE DELTA, AT 400 V	0 kW
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	42 W

VOLTAGE RATING - MAX	480 V
APPLICATION	<ul> <li>1-phase motors: No</li> <li>3-phase motors: Yes</li> <li>Soft starting of three-phase asynchronous motors</li> </ul>
PROTECTION	Finger and back-of-hand proof, Protection against direct contact
MOUNTING POSITION	Vertical
DROP-OUT VOLTAGE	0 - 3 V, DC operated AC operated: 0 - 3 V, AC operated
OVERVOLTAGE CATEGORY	II
DEGREE OF PROTECTION	IP20 NEMA 1
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
FUNCTIONS	Min. ramp time 1 s - fast switching (semiconductor contactor) Soft start function Single direction Potential isolation between power and control sections Suppression of closing transients Suppression of DC components for motors
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 AC 17.3 - 27 V DC
RADIO INTERFERENCE	Class B (EN 55011)

CLASS	
PICK-UP TIME	250 ms at DC 250 ms at AC
RATED CONTROL VOLTAGE (UC)	24 V DC (-15 %/+10 %) 24 V DC 24 V AC 24 V AC (-15 %/+10 %)
SUPPLY FREQUENCY	50/60 Hz, fLN, Main circuit
TERMINAL CAPACITY (STRANDED)	2 x (4 - 70) mm², Main cables 1 x (0.5 - 1.5) mm², Control circuit cables 2 x (0.5 - 1.0) mm², Control circuit cables 1 x (4 - 185) mm², Main cables
TERMINAL CAPACITY (COPPER BAND)	2 x 9 x 0.8 mm, Main cables 10 x 16 x 0.8 mm, Main cables
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	24 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
SHOCK RESISTANCE	8 g, 11 ms, Mechanical
SUITABLE FOR	Branch circuits, (UL/CSA)
TIGHTENING TORQUE	0.4 Nm, Screw terminals, Control circuit cables 5 Nm (≤ 10 mm²) 14 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	Max. 100 %, Soft start function, Start voltage = turn-off voltage Min. 30 %, Soft start function, Start voltage = turn-off voltage
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.5 - 1.5) mm <sup>2</sup> , Control circuit cables 2 x (0.5 - 0.75) mm <sup>2</sup> , Control circuit cables
TERMINAL CAPACITY (SOLID)	2 x (4 - 70) mm², Main cables 2 x (0.5 - 1.0) mm², Control circuit cables 1 x (4 - 185) mm², Main cables 1 x (0.5 - 2.5) mm², Control circuit cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	2 x (21 - 18), Control circuit cables 1 x (21 - 14), Control circuit cables 1 x (12 - 350 kcmil), Main cables 2 x (12 - 00), Main cables

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



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