Specifications

Photo is representative

Eaton 134956

Eaton DS7 Soft starter, 100 A, 200 - 480 V AC, 24 V DC, Frame size: FS3,

Communication Interfaces: SmartWire-DT

General specification	าร
PRODUCT NAME	Eaton DS7 Soft starter
CATALOG NUMBER	134956
MODEL CODE	DS7-34DSX100N0-D
EAN	4015081317714
PRODUCT LENGTH/DEPTH	156 mm
PRODUCT HEIGHT	175 mm
PRODUCT WIDTH	93 mm
PRODUCT WEIGHT	1.8 kg
WARRANTY	Eaton Selling Policy 25- 000, one (1) year from the date of installation of the Product or eighteen (18) months from the date of shipment of the Product, whichever occurs first.
COMPLIANCES	C-Tick Compliant CE Marked
CERTIFICATIONS	UL Listed EN 60947-4-2 CSA Certified IEC 60947-4-2 CSA-C22.2 No 0-M91 C-Tick CSA-C22.2-14 CSA-C22.2 No 14-05 CE GB 14048.6 UkrSEPRO IEC/EN 60947-4-2 UL 508 UL CSA
GLOBAL CATALOG	134956



Product specification	S
BYPASS	Internal
CONTROL VOLTAGE	24 Vdc
HORSEPOWER	75 hp
PHASE	Three-phase mains supply voltage
ТҮРЕ	Soft starter for three- phase loads
VOLTAGE RATING	480 V
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.

Resources	
BROCHURES	eaton-softstarter-s811- ds7-brochure- br039001en-en-us.pdf
CATALOGS	Product Range Catalog Drives Engineering Solid-State Motor Control, Reduced Voltage Motor
	Starters, Volume 6, Tab 1
DECLARATIONS OF	DA-DC-00004193.pdf
CONFORMITY	DA-DC-00003978.pdf
DRAWINGS	eaton-semiconductor- contactors-softstarter-ds7- dimensions-004.eps
	eaton-semiconductor- contactors-softstarter-ds7- 3d-drawing-008.eps
ECAD MODEL	ETN.DS7-34DSX100N0-D
INSTALLATION INSTRUCTIONS	IL03902005Z2021_06.pdf
MANUALS AND USER GUIDES	eaton-ds7-soft-starter- mn03901001z-en-us.pdf
	MN05006002Z_EN
MCAD MODEL	DA-CD- ds7 3 darwin 100316
	ds7 3 darwin 100316
MULTIMEDIA	Soft starter DS7 up to 200 A
SALES NOTES	eaton-rmq-chemical- resistance-flyer- fl047011en-en-us.pdf
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - DS7-34DSX100N0-D

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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls 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	ls the panel builder's responsibility.
FITTED WITH:	Internal bypass Internal bypass contacts
FUSE SIZE	350 A class RK5 max
POLLUTION DEGREE	2
CIRCUIT BREAKER TYPE	HKD3350
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	4 3 FS3
ALTITUDE	Max. 2000 m Above 1000 m with 1 % derating per 100 m
AMBIENT OPERATING	40 °C

TEMPERATURE - MAX	
AMBIENT OPERATING TEMPERATURE - MIN	-5 °C
AMBIENT STORAGE TEMPERATURE - MAX	60 °C
AMBIENT STORAGE TEMPERATURE - MIN	-25 °C
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	30 HP
ASSIGNED MOTOR POWER AT 220/230 V, 60 HZ, 3-PHASE	30 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	75 HP
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	25 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
ENVIRONMENTAL RATING	IP20
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	DC
RATED OPERATIONAL VOLTAGE (UE) - MIN	230 V
RATED POWER THREE- PHASE MOTOR, INLINE, AT 230 V	30 kW
RATED POWER THREE- PHASE MOTOR, INLINE, AT 400 V	55 kW
RATED POWER THREE-	0 kW

PHASE MOTOR, INSIDE DELTA, AT 230 V	
RATED POWER THREE- PHASE MOTOR, INSIDE DELTA, AT 400 V	0 kW
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	25 W
VOLTAGE RATING - MAX	480 V
APPLICATION	 1-phase motors: No 3-phase motors: Yes Soft starting of three-phase asynchronous motors
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	IP20 NEMA 1
CURRENT CONSUMPTION	1.6 mA, Control circuit, Digital inputs, External 24 V 0,6 A/50 ms, Control circuit, Regulator supply at peak performance (close bypass) at 24 V DC 50 mA, Control circuit, Regulator supply
CURRENT LIMITATION	(0 - 8) x le, Soft start function
FUNCTIONS	Min. ramp time 1 s - fast switching (semiconductor contactor) Current limitation, with PKE Potential isolation between power and control sections Soft start function Suppression of closing transients

	Suppression of DC components for motors Single direction
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)
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 (25 - 70) mm ² , Main cables 2 x (6 - 25) mm ² , Main cables 2 x (0.5 - 1.0) mm ² , Control circuit cables
RATED OPERATIONAL CURRENT	100 A
TERMINAL CAPACITY (COPPER BAND)	9 x 9 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	24 V

VOLTAGE (US) AT DC - MIN	
RATED OPERATIONAL CURRENT (IE) AT AC-11	1 A
RATED OPERATIONAL CURRENT (IE) AT AC-53	100 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	100 A
RATED OPERATIONAL POWER AT 220/230 V, 50 HZ	30 kW
RATED OPERATIONAL POWER AT 400 V, 50 HZ	55 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	6 Nm (≤ 10 mm²) 9 Nm (> 10 mm²) 0.4 Nm, Screw terminals, Control circuit cables
SHORT-CIRCUIT PROTECTION RATING	3 x 170M4008, Type "2" coordination (additional with the fuses for coordination type "1"), Main conducting paths NZMN1-M100, Type "1" coordination, 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 ² , Control circuit cables 2 x (0.5 - 0.75) mm ² , Control circuit cables
TERMINAL CAPACITY (SOLID)	1 x (0.5 - 2.5) mm², Control circuit cables 1 x (25 - 70) mm², Main cables 2 x (0.5 - 1.0) mm², Control circuit cables 2 x (6 - 25) mm², Main cables

TERMINAL CAPACITY (SOLID/STRANDED AWG)	2 x (21 - 18), Control circuit cables 1 x (12 - 2/0), Main cables 1 x (21 - 14), Control circuit cables
WIRE TYPE	SmartWire-DT

PROJECT NAME: PROJECT NUMBER: PREPARED BY: DATE:



Eaton Corporation plc

Eaton House 30 Pembroke Road Dublin 4, Ireland Eaton.com

© 2025 Eaton. All Rights Reserved.

Follow us on social media to get the latest product and support information.









