DATASHEET - TM-2-8550/EZ



Coding switches, TM, 10 A, centre mounting, 2 contact unit(s), Contacts: 4, 30 $^{\circ}$, maintained, With 0 (Off) position, 0-9, design no. 8550



Part no. TM-2-8550/EZ Catalog No. 000699

EL-Nummer (Norway)

0001456173

Delivery program

Delivery program			
Product range			Control switches
Part group reference			TM
Basic function			Coding switches
			with black thumb grip and front plate
Contacts			4
Degree of Protection			Front IP65
Design			centre mounting
Contact sequence			8
switching function			BCD Code 0-9
Switching angle		0	30
Switching performance			maintained With 0 (Off) position
Design number			8550
Front plate no.			$ \begin{array}{c c} & 1 & 2 & 3 & 4 & 5 \\ & 1 & 2 & 6 & 6 & 7 & 6 \\ & 9 & 8 & 7 & 7 & 7 & 7 \end{array} $ F 007
front plate			0-9
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	3
Rated uninterrupted current	lu	A	10
Note on rated uninterrupted current !u			Rated uninterrupted current I_u is specified for max. cross-section.
Number of contact units		contact	
		unit(s)	

Technical data

Standards IEC/EN 60947, VDE 0660, CSA, UL
Control switch as per IEC/EN 60947-5-1
Auxiliary switch as per IEC/EN 60947-5-1

Apoble in Eugenature	Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Recent equery polytomian degrand Mary 10 Mg VEX. (Approximate valuation valuati	Ambient temperature			
Name impossible not be set of the set of t	Open		°C	-25 - +50
According poteins Service Serv	Overvoltage category/pollution degree			III/3
According poteins Service Serv	Rated impulse withstand voltage	U _{imp}	V AC	4000
Control of Interestricts Service of Interestricts Us VAC 000 Related operational voltage Ug VAC 000 Note on racked uninterrupted current Ing Ug VAC 100 Short - circuit racked Temperature of Management o	Mounting position			As required
Read operational voltage				
Retact uninterrupted current I ₁₁	Electrical characteristics			
Note on rated uninterrupted current I	Rated operational voltage	U _e	V AC	500
Stote-circuit rating	Rated uninterrupted current	Iu	Α	10
Rise Part	Note on rated uninterrupted current !			Rated uninterrupted current I _{II} is specified for max. cross-section.
Fives Ag6/glt 10 Sovitem Sovitem Sovitem Sovitem for Intentions per centact at I _q V V 0.15 Current heat loss per centact at I _q Questions 10 0.15 Léspan, mechanical Operations 10 0.15 Maximum operating frequency Operations 12 120 AC 21A Restod operational current switch P X 10 AC 22A P NW 10 10 AC 23A P NW 3 2 10 <td></td> <td></td> <td></td> <td></td>				
Swite is deliction to EN 1110 W US Current heat loss per contact at I _a Qperations x1g* > 1 L'Espan, mechanical Operations x1g* > 1 Miximum apprating frequency Operations x1g* > 1 AC AC-21A Reted operational current switch I I I 4 (00 V 415 V P kV I AC-22A I AC-22A I AC-22A I			A aG/aL	10
Safe isolation to EN 1140 Current heat loss per contact at I ₂			7.90/92	
Current heat loss per auxiliary circuit at l ₄ (AC-19/200 V)				
Lifespan, mechanical Operations x 10°	Current heat loss per contact at l _e		W	0.15
Lifespan, mechanical Operations x 10°			CO	0.15
Maximum operating frequency Operations by Earth of Maximum operating frequency 100 <td< td=""><td></td><td>Operations</td><td></td><td></td></td<>		Operations		
AC 21A Rated operational current switch 400 V 415 V AC 22A, 50 - 60 Hz 400 V 415 V AC 23A, 50 - 60 Hz 400 V 415 V AC 23A, 50 - 60 Hz 400 V 415 V AC 24A P AOU V 415 V AOU V 15 V AOU V 15 V P Ratit Probability Fault Probability			X IU	
AC-21A Rated operational current switch 400 V 415 V		operations/h		1200
Rated operational current switch 400 V 415 V 16				
A00 V 415 V I				
AC-23A				10
Motor rating AC-23A, 50 - 60 Hz P kW 400 V 415 V P kW 3 Control circuit reliability at 24 V DC, 10 mA Fault probability Hg < 10 s < 1 silure in 100,000 switching operations		I _e	А	10
Route P				
Paul probability Paul probab				
Terminal capacities				
Terminal capacities Solid or stranded mm² 1×1.5 2×1.5 1×1.0 2×1.0 1×1.5 2×1.0 1×1.5 2×1.0 1×1.5 2×1.0 1×1.5 2×1.0 1×1.5 2×1.0 1×1.5 2×1.0 1×1.5 2×1.0 1×1.5 2×1.5 2×1.5 1×1.5 2×1.5 2×1.5 2×1.5 2×1.5 1×1.5 2×1.	Control circuit reliability at 24 V DC, 10 mA		H _F	< 10 ⁻⁵ ,< 1 failure in 100,000 switching operations
Flexible with ferrules to DIN 46228	Terminal capacities			
Flexible with ferrules to DIN 46228 mm² 2 1×1.0 2×1.0 Flexible mm² 2 1×1.5 2×1.5 M2.5 M3.5	Solid or stranded		mm ²	
Flexible	El did did did did a Dilli 1999			
	Flexible with ferrules to DIN 46228		mm ²	
Terminal screw Tightening torque for terminal screw Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use Auxiliary contacts General Use Pilot Duty Switching capacity Maximum motor rating Single-phase 120 V AC 1277 V AC Main conducting paths Filot Duty A 300	Flexible		mm ²	1 x 1.5
Tightening torque for terminal screw Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use Auxiliary contacts General Use Iu A 10 Pilot Duty Maximum motor rating Single-phase 120 V AC 240 V AC HP 0.75				
Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use Auxiliary contacts General Use Pilot Duty Maximum motor rating Single-phase 120 V AC 240 V AC 277 V AC Meximum Contact type Weap of the path				M2.5
Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use Auxiliary contacts General Use Pilot Duty Switching capacity Maximum motor rating Single-phase 120 V AC 121 V AC 122 V AC 123 V AC 124 V AC 125 V AC 127 V AC			Nm	0.4
Rated operational voltage Rated uninterrupted current max. Main conducting paths General use A 10 Auxiliary contacts General Use Pilot Duty A 300 Switching capacity Maximum motor rating Single-phase 120 V AC 120 V AC 121 V AC HP 0.75 HP 0.75				
Rated uninterrupted current max. Main conducting paths General use Auxiliary contacts General Use Iu A 10 Pilot Duty A 300 Switching capacity Maximum motor rating Single-phase 120 V AC A 240 V AC A 10 HP 0.33 HP 0.75			V 40	
Main conducting paths General use Auxiliary contacts General Use Pilot Duty Maximum motor rating Single-phase 120 V AC 1277 V AC HP 0.75 HP 0.75		Ue	V AU	300
General use Auxiliary contacts General Use Pilot Duty Maximum motor rating Single-phase 120 V AC 120 V AC 277 V AC HP 0.75 HP 0.75				
Auxiliary contacts IU A 10 Pilot Duty A 300 A 300 Switching capacity Contact of the property of t				
General Use			Α	10
Pilot Duty A 300 Switching capacity ————————————————————————————————————				
Switching capacity Image: Comparison of the comparison o		lu	Α	
Maximum motor rating Single-phase 120 V AC HP 0.33 240 V AC HP 0.75 277 V AC HP 0.75				A 300
Single-phase HP 0.33 240 V AC HP 0.75 277 V AC HP 0.75				
120 V AC				
240 V AC				
277 V AC HP 0.75				
Three-phase			HP	0.75
	Three-phase			
120 V AC HP 0.75				0.75
240 V AC HP 1			HP	1
Terminal capacity	Terminal capacity			

Solid or flexible conductor with ferrule	AWG	14
Terminal screw		M2.5
Tightening torque	lb-in	3.5

Design verification as per IEC/EN 61439

Design vermoation as per 120/214 01703			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	10
Heat dissipation per pole, current-dependent	P _{vid}	W	0.15
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	50
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			UV resistance only in connection with protective shield.
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 Insulation properties			
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.

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Control switch (EC002611)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Control switch (ecl@ss10.0.1-27-37-14-14 [ACN998011])

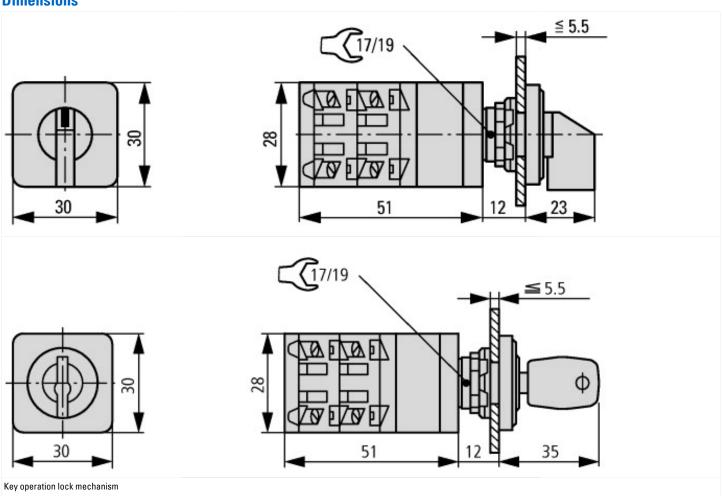
	Coding switch
	1
V	500
Α	10
	10
	Yes
	No
	Built-in device
	0
	No

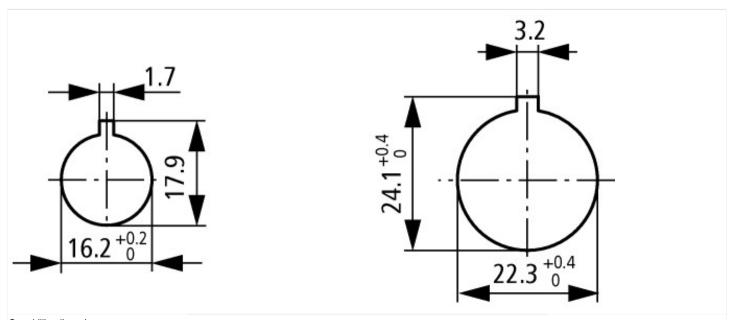
Suitable for front mounting 4-hole	Yes
Suitable for distribution board installation	No
Suitable for intermediate mounting	No
Complete device in housing	No
Type of control element	Toggle
Front shield size	30x30 mm
Degree of protection (IP), front side	IP65
Degree of protection (NEMA), front side	Other

Approvals

Product Standards	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL Category Control No.	NLRV
CSA File No.	UL report applies to both US and Canada
North America Certification	UL listed, certified by UL for use in Canada
Degree of Protection	IEC: IP65; UL/CSA Type: –

Dimensions





Door drilling dimensions Drilling dimensions: either 16.2 mm = without reduction \triangle RMQ16 or 22.3 mm = with reduction \triangle RMQ Titan