



Starter kit with ES4P-221-DMXD1, ESP-SOFT, easy800-USB-CAB

Part no. ES4P-BOX-221-DMXD1
Catalog No. 115126

Delivery program

Product range			Control relays for safety applications
Basic function			Starter kit easySafety
Included devices			
111017 ES4P-221-DMXD1			Safety relays
111460 ESP-SOFT			Programming software
106408 EASY800-USB-CAB			Programming cable
Heat dissipation		W	< 6
Note on heat dissipation			Current consumption at 24 V DC (ES4P-221-DMXD1)

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	0
Heat dissipation per pole, current-dependent	P_{vid}	W	0
Equipment heat dissipation, current-dependent	P_{vid}	W	0
Static heat dissipation, non-current-dependent	P_{vs}	W	6
Heat dissipation capacity	P_{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55
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			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 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 8.0

Programmable logic controllers PLC (EG000024) / PLC device set (EC002581)		
Electric engineering, automation, process control engineering / Control / Programmable logic control (SPS) / PLC device set (ecl@ss10.0.1-27-24-22-19 [BAA707013])		
Contains function building blocks		No
Contains basic device		Yes
Contains module rack		No
Contains power supply		No
Contains analogue input module		No
Contains analogue output module		No
Contains digital input module		No
Contains digital output module		No
Contains function module		No
Contains technology module		No
Contains communication module		No
Contains memory unit		Yes
Contains simulation module		No
Contains connection cable		Yes
Contains control unit		Yes
Contains monitor		No
Contains programming software		Yes
Contains engineering software		No
Contains visualization		No
Contains libraries		No
Contains documentation		Yes
Contains other components		No
Software preinstalled		Yes

Characteristics

PU05907001Z safety manual

Additional product information (links)

f1=1454&f2=1175;Download easySoft-Safety	http://applications.eaton.eu/sdlc?LX=11&
f1=1454&f2=1179;Labeleditor	http://applications.eaton.eu/sdlc?LX=11&
Product overview (WEB)	http://www.eaton.eu/es4p