## DATASHEET - MDB-BI-7647/SKAP/DIN/PKP-50-3



## Distribution board BI-7647 Package without metering application

Part no. MDB-BI-7647/SKAP/DIN/PKP-50-3

Catalog No. 180436

EL-Nummer (Norway)

1728161



## Design verification as per IEC/EN 61439

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Technical data for design verification			
Heat dissipation, at an ambient temperature of 35°C, delta T: 20 degrees in top of the enclosure, calculated as per IEC 60890			
Individual enclosure for wall mounting	$P_{V}$	W	61
Starting enclosure for wall mounting	$P_{V}$	W	59
Middle enclosure for wall mounting	$P_{V}$	W	56
Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees in top of the enclosure, calculated as per IEC 60890			
Individual enclosure for wall mounting	$P_{V}$	W	123
Starting enclosure for wall mounting	$P_{V}$	W	118
Middle enclosure for wall mounting	$P_{V}$	W	113
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			Not relevant to indoor installations.
10.2.5 Lifting			Does not apply to enclosures without lifting aids.
10.2.6 Mechanical impact			IK08
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			IP30
10.4 Clearances and creepage distances			Is the panel builder's responsibility.
10.5 Protection against electric shock			$<$ 0.1 $\Omega;$ meets the product standard's requirements.
10.6 Incorporation of switching devices and components			Is the panel builder's responsibility.
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			U <sub>i</sub> = 1890 V AC
10.9.3 Impulse withstand voltage			2.5 kV
10.9.4 Testing of enclosures made of insulating material			Does not apply to metal enclosures.
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 switch gear must be observed. $\label{eq:constraint}$
10.13 Mechanical function			Meets the product standard's requirements.

## **Technical data ETIM 7.0**

Distribution boards (EG000023) / Small distribution board (EC000214)

Electric engineering, automation, process control engineering / Electrical installation, device / Electrical distribution system (incl. small distribution board) / Small distribution board (eci@ss10.0.1-27-14-24-09 [ACN387011])

(ecl@ss10.0.1-2/-14-24-09 [ACN38/011])			
Mounting method	Surface mounted (plaster)		
Number of rows	5		
Width in number of modular spacings	20		

Cover model         Closed           Transparent cover/door         No           Material housing         Steel           Height         mm         765           Width         mm         475           Depth         mm         200           Built-in depth         mm         212           Internal depth         mm         210           DIN-rail         yes         yes           With mounting plate         No         No           Extension possible         No         No           EMC-version         yes         No           Colour         No         Write           RAL-number         Write         Write           Degree of protection (IP)         P30           With lock         No				
Transparent cover/door         No           Material housing         Steel           Height         765           Width         475           Depth         mm         202           Built-in depth         mm         212           Internal depth         mm         210           DIN-rail         Yes           With mounting plate         No           Extension possible         No           Extension possible         No           EMC-version         Yes           Colour         Yes           RAL-number         White           Degree of protection (IP)         9016           With lock         IP30           With lock         No	Type of cover			Door
Material housing         Steel           Height         765           Width         75           Depth         75           Built-in depth         720           Internal depth         722           Internal depth         722           With mounting plate         722           With mounting plate         722           Extension possible         724         725           Extension possible         724         725           EMC-version         724         725           Colour         724         725           RAL-number         724         725           Degree of protection (IP)         726         727           With lock         726         727           With lock         727         728           RAL-number         728         729           Police         729         720           With lock         720         720           With lock         720         720           With lock         720         720           With lock         720         720           RAL-number         720         720           RAL-number         720	Cover model			Closed
Height         mm         765           Width         75           Depth         75           Built-in depth         72           Internal depth         72           DIN-rail         72           With mounting plate         72           Extension possible         72           Extension possible         72           EMC-version         72           Colour         72           RAL-number         72           Degree of protection (IP)         720           With lock         720           Mode           Mod           Mode           Mode           Mode	Transparent cover/door			No
Width         mm         475           Depth         mm         220           Built-in depth         mm         212           Internal depth         mm         210           DIN-rail         Yes           With mounting plate         No           Extension possible         No           EMC-version         Yes           Colour         Yes           RAL-number         White           Degree of protection (IP)         1930           With lock         No	Material housing			Steel
Depthmm220Built-in depthmm212Internal depthmm210DIN-railYesWith mounting plateNoNoExtension possibleNoNoEMC-versionYesYesColourYesWhiteRAL-numberYesWhiteDegree of protection (IP)Yes1930With lockIesIesIesWith lockIesIesIesWith lockIesIesIes	Height	ı	mm	765
Built-in depth Internal depth Intern	Width	ı	mm	475
Internal depth DIN-rail DIN-rail With mounting plate Extension possible EXC-version Colour RAL-number RAL-number Degree of protection (IP) With lock DEMARCH STATE	Depth	ı	mm	220
DIN-rail DIN-rail With mounting plate With mounting plate Extension possible Extension possible EMC-version Colour RAL-number Degree of protection (IP) With lock With lock With mounting plate Ves No	Built-in depth	ı	mm	212
With mounting plate Extension possible EMC-version EMC-version Colour RAL-number Degree of protection (IP) With lock  No	Internal depth	ı	mm	210
Extension possible No EMC-version Yes Colour RAL-number Degree of protection (IP) With lock No	DIN-rail			Yes
EMC-versionYesColourWhiteRAL-number9016Degree of protection (IP)IP30With lockNo	With mounting plate			No
ColourWhiteRAL-number9016Degree of protection (IP)IP30With lockNo	Extension possible			No
RAL-number 9016 Degree of protection (IP) IP30 With lock No	EMC-version			Yes
Degree of protection (IP) IP30 With lock No	Colour			White
With lock No	RAL-number			9016
	Degree of protection (IP)			IP30
Type of closure Other	With lock			No
	Type of closure			Other