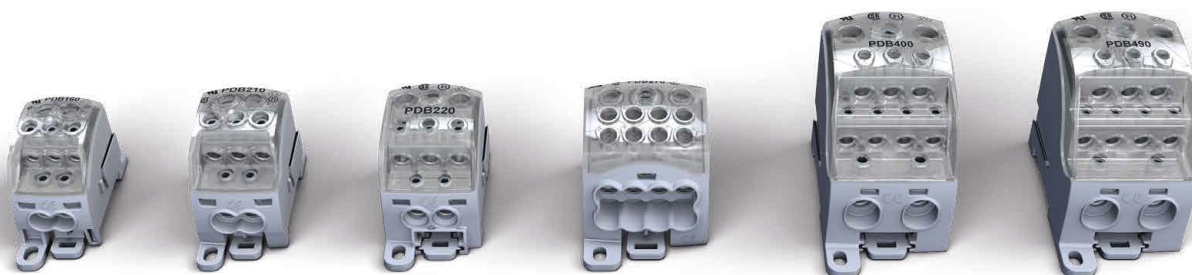




# Technical data sheets





## PDB-series



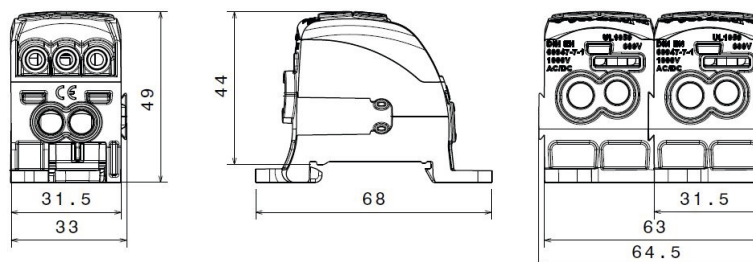
## Technical data

Description:	Power distribution block PDB 160
Construction:	all-side fingersafe, modular system, bridgeable
Item no. :	082040-0-3


## IEC Specific

Standards:	IEC 60947-7-1				
Nominal Voltage:	1000 V AC 1000 V DC				
Nominal current:	101 A Cu  164 A Cu 				
Terminal cross section:	Incoming	Cu			
	1 x	2,5 – 25 mm <sup>2</sup> 1,5 – 16 mm <sup>2</sup> M6 2,5 Nm 19 mm			round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
	Brücke/ Outgoing				
	1 x kombi- niert	1,5 – 16 mm <sup>2</sup> 1,5 – 10 mm <sup>2</sup> M6 2,5 Nm 19 mm  Fork M6			round conductor Cu (solid wire and multi wire) stranded wire with ferrule cross-head screw +/- PZ2 tightening torque stripping length  Phase rail Cu
	Outgoing				
	2 x	1,5 – 16 mm <sup>2</sup> 1,5 – 10 mm <sup>2</sup> M6 2,5 Nm 14 mm			round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
	3 x	1,5 – 10 mm <sup>2</sup> 1,5 – 6 mm <sup>2</sup> M5 2 Nm 12 mm			round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length

Remarks:	The product is compliant with the EC ROHS directives		
Materials:	Terminal body:	brass (CuZn39Pb2)	tin plated
	Basic housing:	PA 6 (Halogen-free)	
	Cover:	PC	
	Screws:	steel	Zn thick-film passivated
Flame resistance:	Self-extinguishing		
Mechanical data:	Dimensions:	width x height x depth (mm):	33 x 49 x 68






## Technical data

Description:	Power distribution block PDB 160	
Construction:	all-side fingersafe, modular system, bridgeable	
Item no. :	082040-0-3	

10.08.2023

## UL Specific

Standards:	UL-1059	UL-1059	
Nominal Voltage:	600 V AC	600 V AC	
Nominal current:	85 A Cu 	65 A Al 	
Terminal cross section:	Incoming	Al	
1 x	14 – 4 AWG 16 – 6 AWG M6 2,5 Nm 19 mm	6 – 4 AWG - M6 5,1 Nm 19 mm	round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
	Brücke/ Outgoing		
1 x kombi- niert	16 – 6 AWG 16 – 8 AWG M6 2,5 Nm 19 mm Fork M6	6 AWG - M6 5,1 Nm 19 mm Fork M6	round conductor Cu (solid wire and multi wire) stranded wire with ferrule cross-head screw +/- PZ2 tightening torque stripping length  Phase rail Cu
	Outgoing		
2 x	16 – 6 AWG 16 – 8 AWG M6 2,5 Nm 14 mm	6 AWG - M6 5,1 Nm 14 mm	round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
	3 x	16 – 8 AWG 16 – 10 AWG M5 2 Nm 12 mm	round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length

## SCCR Rating:

Line	Load	Fuse Class						Amps, kA	Voltage, V
		J	T	RK1	RK5	G	CC		
4 - 14	8 - 14 Top	60	60	60	30	-	30	200	600
	4 - 14 Bottom	-	-	-	-	60	-	100	600
	6 - 14 LS Load								

## Design





Basic housing colour – light grey RAL 7035

Part no.	Cover colour	PU	GTIN (EAN)
082040-0-3	crystal clear	1	4051589204033
082040-1-3	blue	1	4051589204095
082040-4-3	black	1	4051589000512
082040-5-3	red	1	4051589000529

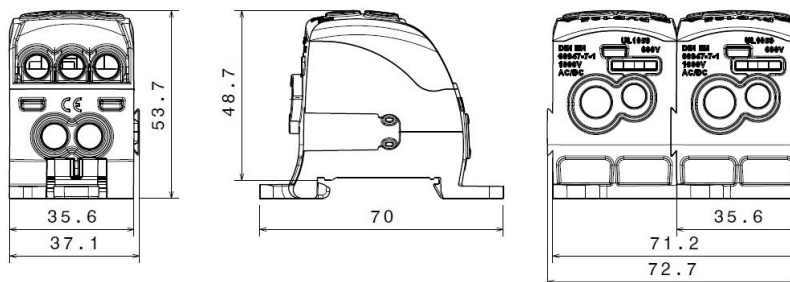
## Technical data


Description:	Power distribution block PDB 210
Construction:	all-side fingersafe, modular system, bridgeable
Item no. :	082050-0-3

## IEC Specific




Standards:	IEC 60947-7-1				
Nominal Voltage:	1000 V AC 1000 V DC				
Nominal current:	125 A Cu 214 A Cu				
Terminal cross section:	Incoming	Cu			
	1 x	4 – 35 mm <sup>2</sup> 2,5 – 25 mm <sup>2</sup> M8 3,5 Nm 19 mm			round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
	Bridge/ Outgoing				
	1 x combi- ned	1,5 – 16 mm <sup>2</sup> 1,5 – 10 mm <sup>2</sup> M6 2,5 Nm 19 mm Fork M6			round conductor Cu (solid wire and multi wire) stranded wire with ferrule cross-head screw +/- PZ2 tightening torque stripping length  Phase rail Cu
	Outgoing				
	2 x	2,5 – 25 mm <sup>2</sup> 1,5 – 16 mm <sup>2</sup> M6 2,5 Nm 14 mm			round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
	3 x	1,5 – 16 mm <sup>2</sup> 1,5 – 10 mm <sup>2</sup> M6 2,5 Nm 12 mm			round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length

Remarks:	The product is compliant with the EC ROHS directives		
Materials:	Terminal body:	brass (CuZn39Pb2)	tin plated
	Basic housing:	PA 6 (Halogen-free)	
	Cover:	PC	
	Screws:	steel	Zn thick-film passivated
Flame resistance:	Self-extinguishing		
Mechanical data:	Dimensions:	width x height x depth (mm):	371 x 53,7 x 70



Technical data		 10.08.2023
Description:	Power distribution block PDB 210	
Construction:	all-side fingersafe, modular system, bridgeable	
Item no. :	082050-0-3	

## UL Specific

Standards:	UL-1059	UL-1059	
Nominal Voltage:	600 V AC	600 V AC	
Nominal current:	115 A Cu 	90 A Al 	
Terminal cross section:	Incoming	Cu	Al
1 x	12 – 2 AWG 14 – 4 AWG M8 3,5 Nm 19 mm	6 – 2 AWG 6 – 4 AWG M8 11,3 Nm 19 mm	round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
	Bridge/ Outgoing		
1 x combi- ned	16 – 6 AWG 16 – 8 AWG M6 2,5 Nm 19 mm Fork M6	6 AWG - M6 5,1 Nm 19 mm Fork M6	round conductor Cu (solid wire and multi wire) stranded wire with ferrule cross-head screw +/- PZ2 tightening torque stripping length  Phase rail Cu
2 x	14 – 4 AWG 16 – 6 AWG M6 2,5 Nm 14 mm	6 – 4 AWG 6 AWG M6 5,1 Nm 14 mm	round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
	3 x	16 – 6 AWG 16 – 8 AWG M6 2,5 Nm 12 mm	6 AWG - M6 5,1 Nm 12 mm





Line	Load	Fuse Class						Amps, kA	Voltage, V
		J	T	RK1	RK5	G	CC		
2 - 12	6 - 16 Top	60	60	60	30	-	30	200	600
	4 - 14 Bottom	-	-	-	-	60	-	100	600
	6 - 16 LS Load								

Design			
Basic housing colour – light grey RAL 7035			
Part no.	Cover colour	PU	GTIN (EAN)
082050-0-3	crystal clear	1	4051589205030
082050-1-3	blue	1	4051589205092
082050-4-3	black	1	4051589000536
082050-5-3	red	1	4051589000543

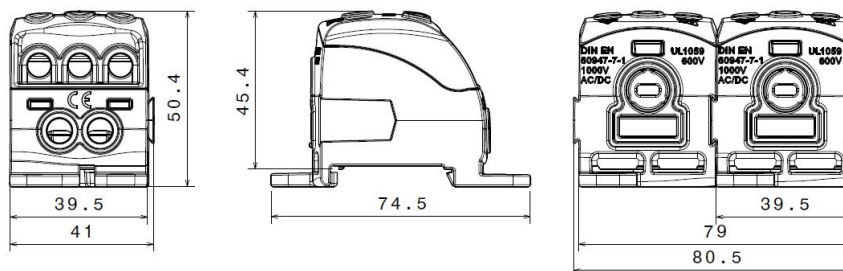
## Technical data

Description:	Power distribution block PDB 220
Construction:	all-side fingersafe, modular system, bridgeable
Item no. :	082060-0-3


## IEC Specific

Standards:	DIN EN 60947-7-1		
Nominal Voltage:	1000 V AC 1000 V DC		
Nominal current:	192 A Cu  215 A Cu 		
Terminal cross section:	Incoming	Cu	
	1 x	10 – 70 mm <sup>2</sup> 6 – 50 mm <sup>2</sup> M10 10 Nm 17 mm	round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
	1 x	15,5 x 5 mm M5 2 Nm 17 mm	flat conductor Cu allen screw (hexagonal socket) x 2 tightening torque stripping length
	Outgoing		
	2 x	2,5 – 25 mm <sup>2</sup> 1,5 – 16 mm <sup>2</sup> M6 2 Nm 12 mm	round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
	3 x	1,5 – 16 mm <sup>2</sup> 1,5 – 10 mm <sup>2</sup> M6 2 Nm 12 mm	round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length

Remarks:	The product is compliant with the EC ROHS directives		
Materials:	Terminal body:	brass (CuZn39Pb2)	tin plated
	Basic housing:	PA 6 (Halogen-free)	
	Cover:	PC	
	Screws:	steel	Zn thick-film passivated
Flame resistance:	Self-extinguishing		
Mechanical data:	Dimensions:	width x height x depth (mm):	41 x 50,4 x 74,5






## Technical data

Description:	Power distribution block PDB 220	
Construction:	all-side fingersafe, modular system, bridgeable	
Item no. :	082060-0-3	

10.08.2023

## UL Specific

Standards:	UL-1059	UL-1059		
Nominal Voltage:	600 V AC	600 V AC		
Nominal current:	160 A Cu 	135 A Al 		
Terminal cross section:	Incoming	Cu	Al	
	1 x	8 – 2/0 AWG 10 – 1/0 AWG M10 10 Nm 17 mm	6 – 2/0 AWG 6 – 1/0 AWG M10 13,6 Nm 17 mm	round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
		1 x	15,5 x 3,2 mm M5 x 20 2 Nm 17 mm	- - - -
	2 x	14 – 4 AWG 16 – 6 AWG M6 3 Nm 12 mm	6 – 4 AWG 6 AWG M6 5,1 Nm 12 mm	round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
		3 x	16 – 6 AWG 16 – 8 AWG M6 3 Nm 12 mm	6 AWG - M6 5,1 Nm 12 mm

### SCCR Rating:

Line	Load	Fuse Class						Amps, kA	Voltage, V
		J	T	RK1	RK5	G	CC		
1/0 - 10	6 - 14 Top	60	60	60	30	-	30	200	600
	4 - 14 Bottom	-	-	-	-	60	-	100	600

### Design





Basic housing colour – light grey RAL 7035

Part no.	Cover colour	PU	GTIN (EAN)
082060-0-3	crystal clear	1	4051589206037
082060-1-3	blue	1	4051589206099
082060-4-3	black	1	4051589000550
082060-5-3	red	1	4051589000567

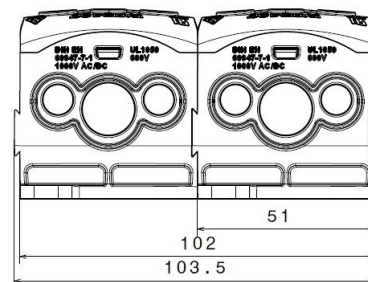
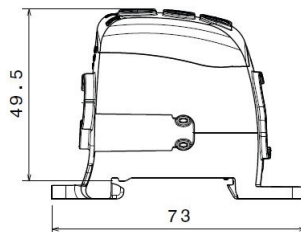
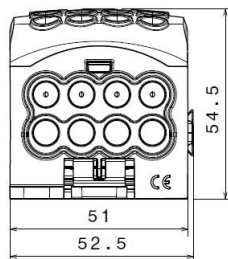
## Technical data

Description:	Power distribution block PDB 270
Construction:	all-side fingersafe, modular system, bridgeable
Item no. :	082070-0-3

## IEC Specific


Standards:	DIN EN 60947-7-1				
Nominal Voltage:	1000 V AC 1000 V DC				
Nominal current:	232 A Cu  270 A Cu 				
Terminal cross section:	Incoming	Cu			
	1 x	16 – 95 mm <sup>2</sup> 10 – 70 mm <sup>2</sup> M12 14 Nm 14 mm			round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) SW 6 tightening torque stripping length
	Bridge/ Outgoing				
	2 x	4 – 35 mm <sup>2</sup> 2,5 – 25 mm <sup>2</sup> M8 3,5 Nm 12 mm			round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
	Outgoing				
	8 x	2,5 – 25 mm <sup>2</sup> 1,5 – 16 mm <sup>2</sup> M6 2,5 Nm 12 mm			round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length

Remarks:	The product is compliant with the EC ROHS directives		
Materials:	Terminal body:	brass (CuZn39Pb2)	tin plated
	Basic housing:	PA 6 (Halogen-free)	
	Cover:	PC	
	Screws:	steel	Zn thick-film passivated
Flame resistance:	Self-extinguishing		
Mechanical data:	Dimensions:	width x height x depth (mm):	52,5 x 54,5 x 73








## Technical data

Description:	Power distribution block PDB 270	
Construction:	all-side fingersafe, modular system, bridgeable	
Item no. :	082070-0-3	

10.08.2023

## UL Specific

Standards:	UL-1059	UL-1059		
Nominal Voltage:	600 V AC	600 V AC		
Nominal current:	200 A Cu 	155 A Al 		
Terminal cross section:	Incoming	Al		
	1 x	6 – 3/0 AWG 8 – 2/0 AWG M12 14 Nm 14 mm	6 – 3/0 AWG 6 – 2/0 AWG M12 22,6 Nm 14 mm	round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) SW 6 tightening torque stripping length
	Bridge/ Outgoing			
	2 x	12 – 2 AWG 14 – 4 AWG M8 3,5 Nm 12 mm	6 – 2 AWG 6 – 4 AWG M8 11,3 Nm 12 mm	round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
	Outgoing			
	8 x	14 – 4 AWG 16 – 6 AWG M6 2,5 Nm 12 mm	6 – 4 AWG 6 AWG M6 5,1 Nm 12 mm	round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length

## SCCR Rating:

Line	Load	Fuse Class						Amps, kA	Voltage, V
		J	T	RK1	RK5	G	CC		
3/0 - 6	4 - 14	60	60	60	30	-	30	200	600
	2 - 12 LS Load	-	-	-	-	60	-	100	600

## Design





Basic housing colour – light grey RAL 7035

Part no.	Cover colour	PU	GTIN (EAN)
082070-0-3	crystal clear	1	4051589207034
082070-1-3	blue	1	4051589207096
082070-4-3	black	1	4051589000598
082070-5-3	red	1	4051589000604

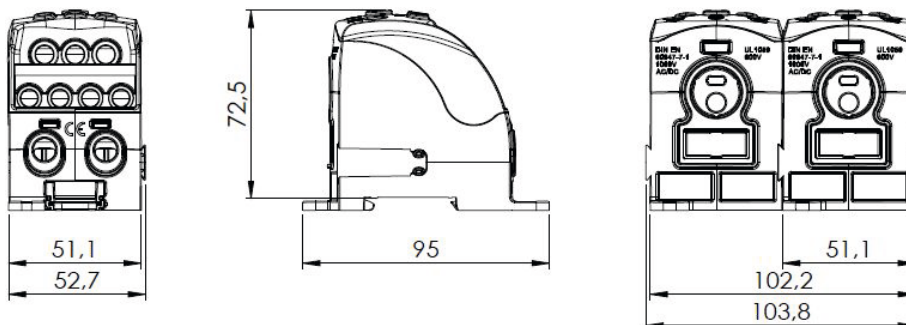
## Technical data

Description:	Power distribution block PDB 400
Construction:	all-side fingersafe, modular system, bridgeable
Item no. :	082080-0-3


## IEC Specific

Standards:	DIN EN 60947-7-1				
Nominal Voltage:	1000 V AC 1500 V DC				
Nominal current:	269 A Cu  400 A Cu 				
Terminal cross section:	Incoming	Cu			
	1 x	35 – 120 mm <sup>2</sup> 25 – 95 mm <sup>2</sup> M14 19 Nm 27 mm			round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
	1 x	24 x 10 mm M6 3 Nm 22 mm			flat conductor Cu allen screw (hexagonal socket) x 2 tightening torque stripping length
	Outgoing				
	2 x	4 – 35 mm <sup>2</sup> 2,5 – 25 mm <sup>2</sup> M8 2,5 Nm 18 mm			round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
	3 x	2,5 – 25 mm <sup>2</sup> 1,5 – 16 mm <sup>2</sup> M6 2 Nm 12 mm			round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
	4 x	1,5 – 16 mm <sup>2</sup> 1,5 – 10 mm <sup>2</sup> M6 2 Nm 12 mm			round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length

Remarks:	The product is compliant with the EC ROHS directives		
Materials:	Terminal body:	brass (CuZn39Pb2)	tin plated
	Basic housing:	PA 6 (Halogen-free)	
	Cover:	PC	
	Screws:	steel	Zn thick-film passivated
Flame resistance:	Self-extinguishing		
Mechanical data:	Dimensions:	width x height x depth (mm):	52,7 x 72,5 x 95






## Technical data

Description:	Power distribution block PDB 400	
Construction:	all-side fingersafe, modular system, bridgeable	
Item no. :	082080-0-3	

10.08.2023

## UL Specific

Standards:	UL-1059	UL-1059		
Nominal Voltage:	600 V AC	600 V AC		
Nominal current:	250 A Cu 	205 A Al 		
Terminal cross section:	Incoming	Cu	Al	
	1 x	2 – 250 AWG 4 – 3/0 AWG M14 19 Nm 27 mm	2 – 250 AWG 4 – 3/0 AWG M14 22,6 Nm 27 mm	round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
1 x	24 x 10 mm M6 3 Nm 22 mm	- - - -	flat conductor Cu allen screw (hexagonal socket) x 2 tightening torque stripping length	
Outgoing	2 x	12 – 2 AWG 14 – 4 AWG M8 6 Nm 18 mm	6 – 2 AWG 6 – 4 AWG M8 11,3 Nm 18 mm	round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
	3 x	14 – 4 AWG 16 – 6 AWG M6 3 Nm 12 mm	6 – 4 AWG 6 AWG M6 5,1 Nm 12 mm	round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
	4 x	16 – 6 AWG 16 – 8 AWG M6 3 Nm 12 mm	6 AWG M6 5,1 Nm 12 mm	round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length

### SCCR Rating:

Line	Load	Fuse Class						Amps, kA	Voltage, V
		J	T	RK1	RK5	G	CC		
3/0 - 4	4 - 14 Top	60	60	60	30	-	30	200	600
250 - 2	6 - 14 Middle 2 - 12 Bottom	-	-	-	-	60	-	100	600

### Design





Basic housing colour – light grey RAL 7035

Part no.	Cover colour	PU	GTIN (EAN)
082080-0-3	crystal clear	1	4051589208031
082080-1-3	blue	1	4051589208093
082080-4-3	black	1	4051589000611
082080-5-3	red	1	4051589000628

## Technical data

Description:	Power distribution block PDB 490
Construction:	all-side fingersafe, modular system, bridgeable
Item no. :	082090-0-3

## IEC Specific

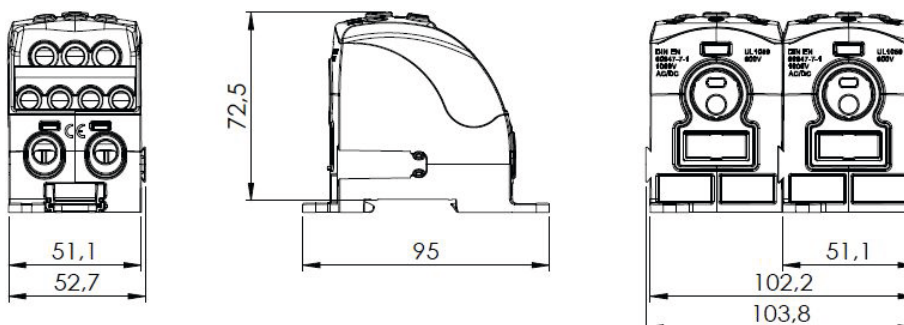
Standards:	DIN EN 60947-7-1				
Nominal Voltage:	1000 V AC 1500 V DC				
Nominal current:	353 A Cu  490 A Cu 				
Terminal cross section:	Incoming	Cu			
	1 x	95 – 185 mm <sup>2</sup> 70 – 150 mm <sup>2</sup> M14 19 Nm 27 mm			round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
	1 x	24 x 10 mm M6 3 Nm 22 mm			flat conductor Cu allen screw (hexagonal socket) x 2 tightening torque stripping length
	Outgoing				
	2 x	4 – 35 mm <sup>2</sup> 2,5 – 25 mm <sup>2</sup> M8 2,5 Nm 18 mm			round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
	3 x	2,5 – 25 mm <sup>2</sup> 1,5 – 16 mm <sup>2</sup> M6 2 Nm 12 mm			round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
	4 x	1,5 – 16 mm <sup>2</sup> 1,5 – 10 mm <sup>2</sup> M6 2 Nm 12 mm			round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length

Remarks: The product is compliant with the EC ROHS directives


Materials:	Terminal body:	brass (CuZn39Pb2)	tin plated
	Basic housing:	PA 6 (Halogen-free)	
	Cover:	PC	
	Screws:	steel	Zn thick-film passivated

Flame resistance: Self-extinguishing

Mechanical data: Dimensions: width x height x depth (mm): 52,7 x 72,5 x 95






## Technical data

Description:	Power distribution block PDB 490	
Construction:	all-side fingersafe, modular system, bridgeable	
Item no. :	082090-0-3	

10.08.2023

## UL Specific

Standards:	UL-1059	UL-1059		
Nominal Voltage:	600 V AC	600 V AC		
Nominal current:	310 A Cu 	250 A Al 		
Terminal cross section:	Incoming	Cu	Al	
	1 x	000 – 350 AWG 00 – 300 AWG M14 25 Nm 27 mm	000 – 350 AWG 00 – 300 AWG M14 22,6 Nm 27 mm	round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
1 x	24 x 10 mm M6 3 Nm 22 mm	- - - -	flat conductor Cu allen screw (hexagonal socket) x 2 tightening torque stripping length	
Outgoing	2 x	12 – 2 AWG 14 – 4 AWG M8 6 Nm 18 mm	6 – 2 AWG 6 – 4 AWG M8 11,3 Nm 18 mm	round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
	3 x	14 – 4 AWG 16 – 6 AWG M6 3 Nm 12 mm	6 – 4 AWG 6 AWG M6 5,1 Nm 12 mm	round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length
	4 x	16 – 6 AWG 16 – 8 AWG M6 3 Nm 12 mm	6 AWG - M6 5,1 Nm 12 mm	round conductor Cu (solid wire and multi wire) stranded wire with ferrule allen screw (hexagonal socket) tightening torque stripping length

### SCCR Rating:

Line	Load	Fuse Class						Amps, kA	Voltage, V
		J	T	RK1	RK5	G	CC		
300 - 2/0	4 - 14 Top	60	60	60	30	-	30	200	600
350 - 3/0	6 - 14 Middle 2 - 12 Bottom	-	-	-	-	60	-	100	600

### Design

Basic housing colour – light grey RAL 7035

Part no.	Cover colour	PU	GTIN (EAN)
082090-0-3	crystal clear	1	4051589209038
082090-1-3	blue	1	4051589209090
082090-4-3	black	1	4051589000635
082090-5-3	red	1	4051589000642