IP66 Distribution Boards, Overview

Blakley Electrics first introduced a standard range of IP55 and IP66 MCB boards in 2014 and, in the intervening years, many of our heavy duty boards have been supplied when a standard board is not suitable for the installation environment. Typical sectors include rail, nuclear, docks and harbours, mines and quarries, food production and processing, to name but a few.

In 2023 the range has been updated to incorporate the Schneider ISOBAR P pan assembly, which is specifically designed to accept SP&N RCBOs with Plug On Neutral (PoN), which greatly reduces on site installation time. We have also focused the range on the IP66 version only, so that one product range now meets all regular requirements. The TP&N IP66 range has also been expanded and is now available with pans ranging from 4 way to 24 way. Multi service versions are also available across the range. This data sheet provides outline information on the range, and data sheet DDS011 provides additional detailed information.

Enclosures

Enclosures are fabricated from heavy gauges of sheet steel with a high quality paint finish (for corrosive atmospheres enclosures can be fabricated from stainless steel). The enclosure design has been independently type tested to prove compliance with the IP66 rating. Enclosures feature key and padlockable side hinged doors, top and bottom removable gland plates, external wall fixings, document pockets, etc.

Switchgear

As standard, all switchgear is made by Schneider. Incomers are 2P or 4P switches supplying SP&N or TP&N Isobar P pan assemblies. Pan assemblies have a conditional short circuit rating of 25kA and can be fitted with MCBs and RCBOs. Multi-service boards are also available, combining pan assemblies and unequipped DIN rail for customers to fit their own devices, including MCBs rated up to 100A fed from terminals in the pan.

The Isobar P pan reduces on-site installation time, particularly when high numbers of RCBOs are to be installed. RCBOs with the Plug On Neutral (PoN) feature are clipped directly into the ISOBAR P pan assembly without the need for functional earth or neutral connections, which not only speeds-up and simplifies installation but also increases wiring room within the board.

Options

Various factory fit options are available, including: Extension Chambers with DIN rail for customer fit control devices; Meter Chambers with pre-wired multi-function kWHr meters; Spreader Boxes to increase cable termination distances; projecting canopies to provide additional protection against the elements in exposed locations.

Part Numbers and Availability

On the following pages are part numbers, dimensions and other associated data for boards, MCBs and RCBOs. General arrangement drawings of all items can be downloaded from our website. Popular 125A and 200A IP66 distribution boards are on a reduced lead time but all 250A boards are made to order.

IP66 Distribution Board, 200A, 12W, TP&N

IP66 Distribution Board, 125A, 12W, TP&N c/w DIN rail

Standard Part Numbers, IP66 Distribution Boards

The listings below and opposite detail our standard IP66 SP&N and TP&N Distribution Boards along with factory fitted accessories. We are also able to make non-standard distribution boards. These can incorporate: a range of incoming devices (RCDs, MCCBs, terminal blocks); other makes of switchgear; Red Spot fuse banks; special paint finishes; enclosures made from stainless steel or enclosures sized to meet special dimensional requirements.

Please contact our Customer Service Department to discuss distribution boards or any other Blakley product.

IP66 Distribution Boards, SP&N (please contact us for accessories for single-phase boards)			
Part Number	Type Number	Incomer	Distribution (all pan assemblies are ISOBAR P)
S040322P *	DB166/I125-2P/MGPA10/P	125A 2P Switch	10 way SP pan
S040323P *	DB266/I125-2P/MGPA14/P	125A 2P Switch	14 way SP pan
S040324P *	DB366/I125-2P/MGPA18/P	125A 2P Switch	18 way SP pan
IP66 Distribution Boards, TP&N			
Part Number	Type Number	Incomer	Distribution (all pan assemblies are ISOBAR P)
S040265P	DB266-1/I125-4P/MGPA4/P	125A 4P Switch	4 way TP pan
S040266P *	DB266-1/I125-4P/MGPA6/P	125A 4P Switch	6 way TP pan
S040267P	DB266-2/I125-4P/MGPA8/P	125A 4P Switch	8 way TP pan
S040268P *	DB266-2/I125-4P/MGPA12/P	125A 4P Switch	12 way TP pan
S040269P	DB266-3/I125-4P/MGPA16/P	125A 4P Switch	16 way TP pan
S040270P *	DB266-3/I125-4P/MGPA18/P	125A 4P Switch	18 way TP pan
S040459P	DB266-4/I125-4P/MGPA24/P	125A 4P Switch	24 way TP pan
S040276P	DB266-3/I200-4P/MGPA4/P	200A 4P Switch	4 way TP pan
S040277P	DB266-3/I200-4P/MGPA6/P	200A 4P Switch	6 way TP pan
S040278P	DB266-4/I200-4P/MGPA8/P	200A 4P Switch	8 way TP pan
S040279P *	DB266-4/I200-4P/MGPA12/P	200A 4P Switch	12 way TP pan
S040280P	DB266-5/I200-4P/MGPA16/P	200A 4P Switch	16 way TP pan
S040281P *	DB266-5/I200-4P/MGPA18/P	200A 4P Switch	18 way TP pan
S040460P	DB266-6/I200-4P/MGPA24/P	200A 4P Switch	24 way TP pan
S040287P	DB366-1/I250-4P/MGPA4/P	250A 4P Switch	4 way TP pan
S040288P	DB366-1/I250-4P/MGPA6/P	250A 4P Switch	6 way TP pan
S040289P	DB366-2/I250-4P/MGPA8/P	250A 4P Switch	8 way TP pan
S040290P	DB366-2/I250-4P/MGPA12/P	250A 4P Switch	12 way TP pan
S040291P	DB366-3/I250-4P/MGPA16/P	250A 4P Switch	16 way TP pan
S040292P	DB366-3/I250-4P/MGPA18/P	250A 4P Switch	18 way TP pan
S040461P	DB366-4/I250-4P/MGPA24/P	250A 4P Switch	24 way TP pan
IP66 Multi-Service Distribution Boards, TP&N, with spare DIN rail for customer fit control devices			
S040271P	DB266-1/I125-4P/MGPA4/DR/P	125A 4P Switch	4 way TP pan + DIN rail (up to 8 x SP ways / devices)
S040272P	DB266-2/I125-4P/MGPA8/DR/P	125A 4P Switch	8 way TP pan + DIN rail (up to 14 x SP ways / devices)
S040273P	DB266-3/I125-4P/MGPA12/DR/P	125A 4P Switch	12 way TP pan + DIN rail (up to 20 x SP ways / devices)
S040462P	DB266-4/I125-4P/MGPA16/DR/P	125A 4P Switch	16 way TP pan + DIN rail (up to 24 x SP ways / devices)
S040282P	DB266-3/I200-4P/MGPA4/DR/P	200A 4P Switch	4 way TP pan + DIN rail (up to 8 x SP ways / devices)
S040283P	DB266-4/I200-4P/MGPA8/DR/P	200A 4P Switch	8 way TP pan + DIN rail (up to 14 x SP ways / devices)
S040284P	DB266-5/I200-4P/MGPA12/DR/P	200A 4P Switch	12 way TP pan + DIN rail (up to 20 x SP ways devices)
S040463P	DB266-6/I200-4P/MGPA16/DR/P	200A 4P Switch	16 way TP pan + DIN rail (up to 24 x SP ways / devices)
S040293P	DB366-1/I250-4P/MGPA4/DR/P	250A 4P Switch	4 way TP pan + DIN rail (up to 8 x SP ways / devices)
S040294P	DB366-2/I250-4P/MGPA8/DR/P	250A 4P Switch	8 way TP pan + DIN rail (up to 14 x SP ways / devices)
S040295P	DB366-3/I250-4P/MGPA12/DR/P	250A 4P Switch	12 way TP pan + DIN rail (up to 20 x SP ways / devices)
S040464P	DB366-4/I250-4P/MGPA16/DR/P	250A 4P Switch	16 way TP pan + DIN rail (up to 24 x SP ways / devices)
* Reduced Lead Time			

BLAKLEY ELECTRICS

Factory fitted accessories for IP66 TP&N distribution boards		
Extension Chamber with hinged door for customer fit control devices (can be fitted to top or bottom distribution board)		
S040285P	DB266EB	Fits boards with 125A or 200A incomers (up to 20 SP devices)
S040296P	DB366EB	Fits boards with 250A incomers (up to 24 SP devices)
Spreader boxes to increase cable termination distance (fits to top or bottom of distribution board)		
S040286P	DB266SB	Fits boards with 125A or 200A incomers
S040297P	DB366SB	Fits boards with 250A incomer
Meter Chamber with pre-wired kilowatt hour meter, CTs, aux fuses, etc. (usually fits to bottom of distribution board)		
S040301P	DB266kWHr (125:5)	Fits all boards with 125A incomer
S040302P	DB266kWHr (200:5)	Fits all boards with 200A incomer
S040303P	DB366kWHr (250:5)	Fits all boards with 250A incomer
Rain Canopy (fits to top of distribution board)		
S040308	DB2RR	Fits boards with 125A or 200A incomers
S040309	DB3RR	Fits boards with 250A incomer

Extension Chamber for 125A, IP66, TP&N, Distribution or Multi Service Board

Spreader Box for 125A, TP&N, Distribution or Multi Service Board

Meter Chamber for 125A, IP66, TP&N, Distribution or Multi Service Board

Weights, Dimensions and Cable Termination Capacity				
Three-phase and Neutral Boards, IP66, Incoming 4P Switch	**Board / Switch Rating**	**# Dimensions, W x D x H mm**	**## Incoming Terminal Capacity**	**Weight, kgs**
4W & 6W Distribution Boards and 4W Multi Service Distribution Board	125A	480 x 239 x 608	50mm^2	30
	200A	480 x 239 x 978	185mm^2	40
	250A	600 x 239 x 978	185mm^2	47
8W & 12W Distribution Boards and 8W Multi Service Distribution Board	125A	480 x 239 x 758	50mm^2	36
	200A	480 x 239 x 1128	185mm^2	46
	250A	600 x 239 x 1128	185mm^2	52
16W & 18W Distribution Boards and 12W Multi Service Distribution Board	125A	480 x 239 x 978	50mm^2	40
	200A	480 x 239 x 1303	185mm^2	54
	250A	600 x 239 x 1303	185mm^2	60
24W Distribution Board and 16W Multi Service Distribution Board	125A	480 x 239 x 1128	50mm^2	47
	200A	480 x 239 x 1453	185mm^2	60
	250A	600 x 239 x 1453	185mm^2	65
Extension Chambers, Meter Chambers and Spreaders Boxes ###	125A / 200A	480 x 239 x 378	n/a	15
	250A	600 x 239 x 378	n/a	17
Single-phase and Neutral Boards, IP66	**Number of Ways**	**# Dimensions, W x D x H mm**	**Incoming Terminal Capacity**	**Weight, kgs**
Single-phase Distribution Boards with 125A Incoming DP Switch Isobar P Pan	10 way	430 x 239 x 378	50mm^2	13
	14 way	480 x 239 x 378	50mm^2	15
	18 way	600 x 239 x 378	50mm^2	17
# Width plus 60mm for fixing lugs	## Spreader box required for 4C cables with a CSA above 120mm^2			
### As standard, the maximum size of cable that a Meter Chamber can accommodate is 120mm^2				
Narrow palm lugs are required for cables with a CSA greater than 95mm^2				

Part Numbers, MCBs and RCBOs

Blakley Part Numbers for Acti 9 MCBs to BS EN 60898-1 and RCBOs to BS EN 61009-1														
	PoN RCBO 30mA		Single-pole MCB			Double-pole MCB #			Triple-pole MCB			Four pole MCB #		
Amps	"B" trip	"C" trip	"B" trip	"C" trip	"D" trip	"B" trip	"C" trip	"D" trip	"B" trip	"C" trip	"D" trip	"B" trip	"C" trip	"D" trip
1A	-	-	S031164	S031212	S031260	S031176	S031224	S031272	S031188	S031236	S031284	S031200	S031248	S031296
2A	-	-	S031165	S031213	S031261	S031177	S031225	S031273	S031189	S031237	S031285	S031201	S031249	S031297
4A	-	-	S031166	S031214	S031262	S031178	S031226	S031274	S031190	S031238	S031286	S031202	S031250	S031298
6A	S190437	S190445	S031167	S031215	S031263	S031179	S031227	S031275	S031191	S031239	S031287	S031203	S031251	S031299
10A	S190438	S190446	S031168	S031216	S031264	S031180	S031228	S031276	S031192	S031240	S031288	S031204	S031252	S031300
16A	S190439	S190447	S031169	S031217	S031265	S031181	S031229	S031277	S031193	S031241	S031289	S031205	S031253	S031301
20A	S190440	S190448	S031170	S031218	S031266	S031182	S031230	S031278	S031194	S031242	S031290	S031206	S031254	S031302
25A	S190441	S190449	S031171	S031219	S031267	S031183	S031231	S031279	S031195	S031243	S031291	S031207	S031255	S031303
32A	S190442	S190450	S031172	S031220	S031268	S031184	S031232	S031280	S031196	S031244	S031292	S031208	S031256	S031304
40A	S190443	S190451	S031173	S031221	S031269	S031185	S031233	S031281	S031197	S031245	S031293	S031209	S031257	S031305
45A	S190444	S190452	-	-	-	-	-	-	-	-	-	-	-	-
50A	-	-	S031174	S031222	S031270	S031186	S031234	S031282	S031198	S031246	S031294	S031210	S031258	S031306
63A	-	-	S031175	S031223	S031271	S031187	S031235	S031283	S031199	S031247	S031295	S031211	S031259	S031307

Blakley part numbers for other popular Acti 9 devices

S190314 - Vigi iC60 4P 30mA add-on RCD, 63A, type A (A9V02763)
S040042 - Dolly Lock for MCB
S040335 - Dolly Lock for RCBO
S020463 - MCB blanking strip, 5 pole
S020464 - Blank MCB, single pole
A1151678 - Pan mounting terminal block, 100A, single-pole, to supply DIN Rail mounted MCBs rated up to 100A

\# For applications requiring outgoing MCBs with switched neutrals, please contact us for details of easy to fit neutral kits.