EFFECTIVE 22ND FEBRUARY, 2024

SACE FORMULA AIR
SACE FORMULA DSP P1-P4

Low voltage circuit-breakers

SACE FORMULA DSP P1-P4

Low voltage moulded-case circuit-breakers

ABB FORMULA DSP P1-P4
Performance made simple

SACE FORMULA DSP is part of the ABB FORMULA range, a complete product range for standard applications dedicated to residential, commercial and industrial environments. A perfect synthesis of quality at your fingertips, easy to select, install and use. Technology and value have never been so accessible.

The new SACE FORMULA DSP family consists of four frames (P1, P2, P3 and P4) reaching up to 160A, 250A, 630A and 800A respectively. The four frames are available with thermal-magnetic trip units to cover the most common AC and DC fields. Availability of most requested accessories guarantees the possibility to fulfill the main applications needs.

Easy to install

Click-in fixing for accessories to guarantee time saving and fast installations.

Simplified selection

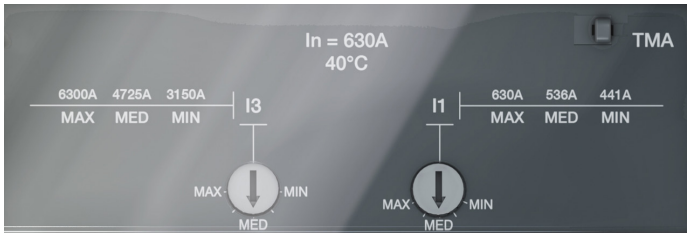
Availability of a short list of codes enables simplified product selection and easy ordering.

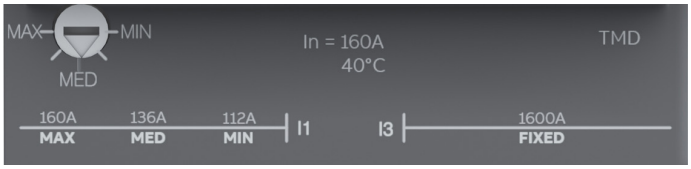
Quality

ABB's long experience in moulded-case circuit breakers design is a guarantee of quality.

Sustainability

Compliance with the international regulations of Product Materials and Environmental Health and Safety.





Power distribution protection

Field of application	Trip Unit	L – Overload protection		I – Short-circuit protection	
		Current threshold	Trip time	Current threshold	Trip time
Power distribution protection	TMD	Adjustable	Fixed	Fixed	Fixed instantaneous
	TMA	Adjustable	Fixed	Adjustable	Fixed instantaneous

	In [A]	40	63	80	100	125	160	200	250	320	400	630	800
TMD	P1	•	•	•	•	•	•						
	P2							•	•				
TMA	P3									•	•	•	
	P4												•

SACE FORMULA DSP P1-P4

Breaking capacity at 415VAC

	Icu	Ics (Icu)
B	18kA	100%
C	25kA	100%
N	36kA	100%
S	50kA	100%

TMD/TMA			B		C		N		S	
Frame	**In**	**Poles**	**Ordering Code**	**L.P. (₹)**	**Ordering Code**	**L.P. (₹)**	**Ordering Code**	**L.P. (₹)**	**Ordering Code**	**L.P. (₹)**
P1 160	40	3P	1SDA116207R1	8,800	1SDA116231R1	8,950	1SDA116255R1	11,900		
	63		1SDA116209R1		1SDA116233R1		1SDA116257R1			
	80		1SDA116210R1		1SDA116234R1		1SDA116258R1			
	100		1SDA116211R1		1SDA116235R1		1SDA116259R1			
	125		1SDA116212R1	11,110	1SDA116236R1	13,000	1SDA116260R1	13,430		
	160		1SDA116213R1	12,700	1SDA116237R1	16,860	1SDA116261R1	17,890		
P2 250	200				1SDA116325R1	22,370	1SDA116337R1	25,820		
	250				1SDA116326R1	26,000	1SDA116338R1	28,660		
P3 630	320						1SDA116371R1	36,980	1SDA116380R1	39,780
	400						1SDA116372R1	36,980	1SDA116381R1	39,780
	630						1SDA116373R1	47,980	1SDA116382R1	50,120
P4 800	800						1SDA116398R1	72,810	1SDA116401R1	81,740

TMD/TMA			B		C		N		S	
Frame	**In**	**Poles**	**Ordering Code**	**L.P. (₹)**	**Ordering Code**	**L.P. (₹)**	**Ordering Code**	**L.P. (₹)**	**Ordering Code**	**L.P. (₹)**
P1 160	40	4P	1SDA116218R1	11,640	1SDA116242R1	12,470	1SDA116266R1	14,960		
	63		1SDA116220R1		1SDA116244R1		1SDA116268R1			
	80		1SDA116221R1		1SDA116245R1		1SDA116269R1			
	100		1SDA116222R1		1SDA116246R1		1SDA116270R1			
	125		1SDA116225R1	13,650	1SDA116249R1	16,150	1SDA116273R1	17,280		
	160		1SDA116226R1	17,350	1SDA116250R1	20,630	1SDA116274R1	21,690		
P2 250	200				1SDA116333R1	27,980	1SDA116345R1	31,760		
	250				1SDA116334R1	31,720	1SDA116346R1	34,740		
P3 630	320						1SDA116377R1	46,010	1SDA116386R1	49,910
	400						1SDA116378R1	46,010	1SDA116387R1	49,910
	630						1SDA116379R1	59,100	1SDA116388R1	65,760
P4 800	800						1SDA116400R1	78,580	1SDA116403R1	92,370

SACE FORMULA DSP P1-P4

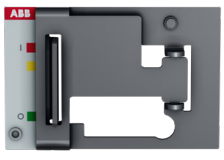
Terminals (supplied with phase barrier)					
Size	**Type**	**6 pcs (kit for 3p)**	**L.P (₹)**	**8 pcs (kit for 4p)**	**L.P (₹)**
P1	ES Extended spread front terminals 47mm	1SDA116501R1	1,900	1SDA116502R1	2,540
P2	ES Extended spread front terminals 70mm	1SDA116505R1	2,590	1SDA116506R1	3,310
P3	ES Extended spread front terminals 80mm	1SDA116509R1	5,120	1SDA116510R1	6,810
P4	ES Extended spread front terminals 70mm	1SDA104736R1(1)	Upon Request	1SDA104737R1(2)	Upon Request

(1) Code is for 3 pcs for both sides order 2 quantities
(2) Code is for 4 pcs for both sides order 2 quantities

Auxiliary contacts - AUX					
Size	**Type**	**24V DC**	**L.P (₹)**	**250V AC**	**L.P (₹)**
P1-P4	AUX Q or SY	1SDA116439R1	1,860	1SDA116440R1	1,190

Service releases					
Size	**Voltages**	**SOR**	**L.P (₹)**	**UVR**	**L.P (₹)**
P1-P2	24-30V AC/DC	1SDA116448R1	2,630	1SDA116454R1	4,170
	110...127V AC / 110...125V DC	1SDA116445R1	2,460	1SDA116452R1	4,060
	220...240V AC / 220...250V DC	1SDA116447R1	2,460	1SDA116453R1	
	UVR 380-440V AC			1SDA116455R1	
P3-P4	24…30 VAC/DC	1SDA116461R1	3,930	1SDA116467R1	8,620
	110...127 VAC - 110…125 VDC	1SDA116459R1	3,930	1SDA116464R1	
	220...240 VAC – 220...250 VDC			1SDA116466R1	
	380…440 VAC			1SDA116468R1	

Rotary handles					
Size	**Type**	**RHD**	**L.P (₹)**	**RHE**	**L.P (₹)**
P1-P2	Rotary Handle	1SDA116477R1	1,920	1SDA116483R1	1,870
P3	Rotary Handle	1SDA116478R1	4,330	1SDA116485R1	3,970
P4	Rotary Handle	1SDA116480R1	5,910	1SDA116488R1	7,750



Locking arrangement - Padlock / Keylock					
Size	**Type**	**Padlock**	**L.P (₹)**	**Keylock***	**L.P (₹)**
P1-P2	Locking arrangement	1SDA116491R1	1,830	1SDA066617R1	2,470
P3	Locking arrangement	1SDA116493R1	3,340	1SDA105081R1	4,750
P4	Locking arrangement	1SDA116495R1	4,600	1SDA105091R1	

* Keylock mounted on mechanism of RHE on MCCB or on RHD

General conditions of sale

General terms and conditions of sale:
- All prices mentioned in this price list are in Indian Rupees (INR) and this supersedes all previous price lists
- Prices are based on Ex-work basis
- List prices (LPs) mentioned are exclusive of all taxes
- Prices are subject to revision without prior notice

Terms of delivery: Ex- work, Nelamangala or any other ABB warehouse in India

Standard delivery terms
Ex-stock or 30 working days

Address of Nelamangala warehouse
ABB INDIA LIMITED
#126, Hanchipura Village, Kasaba Hobli
Nelamangala Taluk, Bangalore-562 123
Tel: +91 80 2770 0081
Tel: +91 80 2770 0082
Tel: +91 80 2770 0083

Address of Works
Nelamangala
Survey No: 88/3, 88/4, Basavanahalli, Kasaba Hobli,
Nelamangala Taluk, Bangalore - 562 123
Karnataka, India
Tel: +91 80 2294 6618
Tel: +91 80 2294 6619
Fax: +91 80 2294 9999

Warranty policy
ABB guarantees the supply according to the law. Upon expiration, the warranty expires even if the devices have not been operated for any reason. In the case of faults, as long as this does not depend on assembly errors by the customer or third parties, on incorrect use of the materials, lack of or incorrect maintenance, normal wear and tear, faults caused by inexperience or negligence by the purchaser or by transport, by the improper storage of the materials, or failure by the customer to adopt measures to reduce eventual dysfunction, overload with respect to the contractual limits, by unauthorized intervention, by tampering or action effected by the customer, to force majeure, ABB will, throughout the warranty period, repair or replace any defective part of supply free of charge, in the shortest possible time, at its premises. Where the repair cannot be executed at ABB premises, except as otherwise agreed, all the supplementary or relevant expenses shall be borne by the customer.

Repair or replacement will be executed only if the customer has performed all the obligations to that date. The customer may not suspend performance of the obligations in any case in which this warranty is invoked. The term for the repair or replacement of the faulty supply will be agreed by ABB and the customer. The shipment of any supply claimed to be faulty by the customer to ABB and subsequently by ABB to the customer, shall be at the risk and under the responsibility of the customer, who shall arrange adequate insurance coverage. The supply repaired or replaced is shipped at the expense and risk of the customer. Any dispute about a shipment has no effect on the remainder of the supply. The products replaced by ABB become the property of ABB.
Any claim regarding the supply, machinery, plant or components not compliant with the specifications or the contractual documentation must be raised in writing, within a maximum term of 8 days from delivery, when the time limit for action expires. In the case of systems, this term is 60 days from execution of the disputed service when the time limit for action expires.

In the case of latent defects, the terms indicated above run from the date of discovery. Once the warranty period has expired, claims are not accepted,even for latent defect. Where the claim is timely and justified, ABB's obligation is limited to replacement of the goods found not in compliance or repetition of execution of the non-compliant service, excluding all rights to the Customer to seek termination of the contract and/or compensation of damages.

With reference to the provision of spare parts, ABB reserves the right to provide materials either from the original supplier or from equivalent supplier.

Warranty period:

Breakers & switches: The warranty period is 12 months from the date of commissioning or 18 months from the date of ABB's invoice, whichever is earlier.

Liability clause:
The manufacturer shall not be liable for any consequential loss, injury or damages attributable to defect or failure of its products.

ABB India Helpline
Technical telephone support for customers
and channel partners.
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website: new.abb.com/low-voltage