

INTRODUCTION

The DU Series, a new generation of MCCBs, stands out due to its state-of-the-art design, contemporary user-friendly features, ergonomics, aesthetics and compactness.

DU Series complies with the latest standards like IS/IEC 60947-2, IEC 60947-2 & EN 60947-2. The products conform to international standards, carry **CE** marking and are **KEMA** & CB certified.

The range is specially designed for tropical conditions, ensuring reliable performance at high ambient and humid environments. The range can satisfy the most demanding system requirements.

The DU Series, having a wide range of accessories, ensures operational safety, reliability and versatility.

MCCB ENCLOSURE

New Range of MCCB enclosures, Size I Enclosure suitable for DU100D/DU125D/DU100H/DU125H and Size II Enclosure suitable for DU250/DU250C. These standalone enclosures not only provides ample space for cable termination but are also superior in aesthetics.

- Conforms to IEC 62208, IEC 62262 and IEC 60529
- Common Enclosure for 3P/4P MCCBs
- RoHS compliant
- IP30 Protection & IK08 Protection
- Inbuilt Neutral Link for TPN systems
- Mounting Holes on the back plate
- Louvers for better heat dissipation

Enclosure	Height (mm)	Width (mm)	Depth (mm)
Size I	543	198	97
Size II	830	337	111



TECHNICAL SPECIFICATIONS

DU Series

Technical Parameters			Specification				
Type Designation			DU100D/DU125D	DU100H/DU125H	DU250C	DU250	DU400N
No. of Poles			3/4	2/3/4	3/4	2/3/4	2/3/4
Rated Current	I_n (A)		20, 25, 32, 40, 50, 63, 80, 100, 125	20, 25, 32, 40, 50, 63, 80, 100, 125	160, 200, 250		320, 400
Impulse Withstand Voltage	U_{imp} (kV) AC		8				8
Rated Operational Voltage	U_e (V) AC		415				690
Rated Insulation Voltage	U_i (V) AC		800				800
Operational Frequency (Hz)			50 / 60				
Utilisation Category			A				
Reference Temperature			40° C				
Operating Temperature			-5°C to + 55°C				
Standard			IS/IEC60947-2, IEC60947-2 & EN60947-2				
I_{cu} (kA)	240V AC		32	65	65	65	65
	415V AC		18	30	25	36	50
	250V DC (2P in series) L/R<15 msec		-	15	-	15	25
	250V DC (3P in series) L/R<15 msec		15	20	15	20	30
	500V DC (3P in series) L/R<15 msec		10	15**	10	15**	20***
Rated Service S. C. Breaking Capacity (I_{cs})			100% of I_{cu}	50% of I_{cu}			
Single Stage Capacitor Rating at 415V, 50Hz (kVAR)			upto 50 kVAR* (for 100A) & 65 kVAR* (for 125A)		upto 95 kVAR*		upto 150 kVAR*
Mechanical Life	No. of operations		40000		15000		10000
Electrical Life	No. of operations		8000 ^s		3000		4000
IP Protection (from front side)			IP40				
Pollution Degree			III				
Type of Release			Thermal - Magnetic				
Thermal			Variable (0.8 - 1.0 I_n)				
Magnetic			Fixed (9 I_n)				
Terminal Capacity (without spreaders)							
Cables with Lug (mm ²)			35		120		185
Link (mm)			≤17		≤26		≤32
Overall Dimensions							
Width (mm)			75/100	75/75/100	105/140		140/184
Height (mm)			130		165		205
Depth (mm)			60		60		110.5
Weight (2/3/4 Pole) (kg)			0.85/1.1	0.6/0.85/1.1	1.55/2	1.3/1.55/2	4/5

* Please use Capacitor Duty Contactors with MCCB for Capacitor Applications. Capacitor ratings mentioned are with MO C only.

** 10 kA at 500V d.c. (2P in series) L/R<15 msec

*** 15kA at 500V d.c. (2P in series) L/R<15 msec

\$ 4000 for DU125D/DU125H

Note : 2P MCCBs are available upto 100A in DU100H