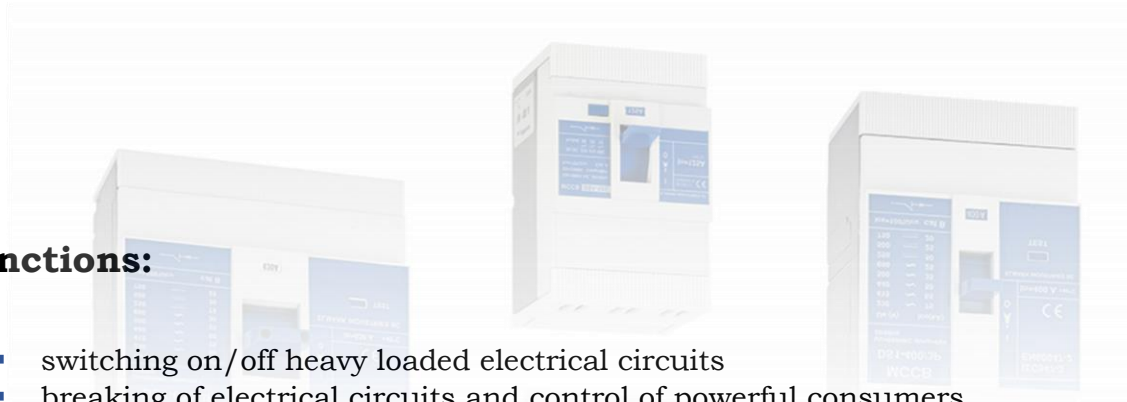


MOULDED CASE CIRCUIT BREAKERS (MCCB)

DS1 series from 40...1250A



Functions:

- switching on/off heavy loaded electrical circuits
- breaking of electrical circuits and control of powerful consumers
- can be used as a main breaker in housing or industrial distributing installations
- endures high currents of short circuit in the protected circuit
- remarkable with high reliability of current characteristics
- control: manual
- possibility for auxiliary devices mounting for automation

Technical data:	
Rated operating voltage:	415/690V; 50/60Hz
Isolating voltage:	2000V
Surge voltage wear resistance:	≥8000V
Joining terminal:	flat (tunnel) screw terminal for the breakers up to 160A and a bolt connection for the breakers from 250A to 1600A
Connecting:	<ul style="list-style-type: none"> ▪ rigid or flexible conductors ▪ front conductors joining ▪ possibility for mounting to lengthening terminal
Plastic elements:	<ul style="list-style-type: none"> ▪ Not keeping the burning material nylon PA66 ▪ Box permittivity strength: >16MV/m
Abnormal heating wear resistance and fire of the outer parts:	960°C
Static contacts – alloy: pure copper T2Y2	<ul style="list-style-type: none"> ▪ contact head: silver graphite CAg (5) ▪ thickness: depends on the current
Tightening moment:	1.33Nm
Electrical wear resistance (number of cycles):	≥10000
Mechanical wear resistance (number of cycles):	≥20000
IP code:	IP>20
Plastic material of UV rays and non- flammable	
Test button	
Ambient temperature:	-20°÷65°C

Mounting:

- vertical on a smooth surface using bolts

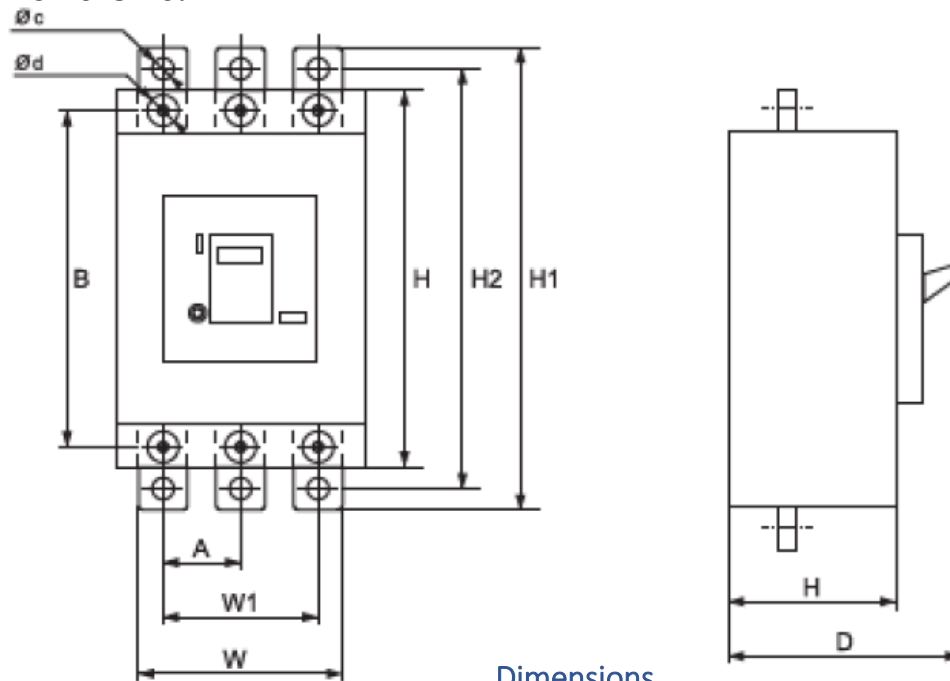
Advantages:

- Wide range of auxiliary devices for automation
- Extreme reliability and performance
- High electrical and mechanical wear resistance
- Compact size

Applications:

- Residential buildings
- Administrative buildings
- Commercial property
- Industrial applications
- Distribution boards

Dimensions:



Dimensions
(mm)

Type	W	H	D	H1	D1	A	B	W1	H2	$\varnothing d$	$\varnothing e$
DS1-125/3P	76.2	120	70	-	90	25	100	50	-	4	-
DS1-160/3P	90	120	70	-	93	30	100	60	-	5	-
DS1-250/3P	105	170	104	238	143.5	35	139	70	210	6	8.5
DS1-400/3P	140	257	104	316	144	44	214	87.5	285	6	11
DS1-630/3P	210	275	104	310	172	70	230	140	280	6	11
DS1-800/3P	210	275	104	347	172	70	230	140	307	6	16
DS1-1600/3P	210	410	140	410	210	70	300	140	350	10	12

DS1-125/4P	110	120	70	-	90	25	100	50	-	4	-
DS1-160/4P	120	120	70	-	93	30	100	60	-	5	-
DS1-250/4P	140	170	104	238	143.5	35	139	70	210	6	8.5
DS1-400/4P	184	257	104	316	144	44	214	87.5	285	6	11
DS1-630/4P	280	275	104	310	172	70	230	140	280	6	11
DS1-800/4P	280	275	104	347	172	70	230	140	307	6	16
DS1-1600/4P	280	410	140	410	210	70	300	140	350	10	12

Basic data:

■ MCCB DS1-125



Type	Rated current In (A)	Operating breaking capacity Ics (kA)	Maximum breaking capacity Icu (kA)		Thermal current adjustment (A)	Section of the conductor (mm ²)	Packing/Box (pcs)	Catalogue number three-poles	Catalogue number four-poles
			415V	690V					
DS1-125	40	16	35	10	fixed	16	1 / 20	44040	444040
DS1-125	50	16	35	10	fixed	16	1 / 20	44050	444050
DS1-125	63	16	35	10	fixed	25	1 / 20	44063	444063
DS1-125	80	16	35	10	fixed	25	1 / 20	44080	444080
DS1-125	100	16	35	10	fixed	35	1 / 20	44090	444090
DS1-125	125	16	35	10	fixed	50	1 / 20	44125	444125

■ MCCB DS1-160



Type	Rated current In (A)	Operating breaking capacity Ics (kA)	Maximum breaking capacity Icu (kA)		Thermal current adjustment (A)	Section of the conductor (mm ²)	Packing/ Box (pcs)	Catalogue number three-poles	Catalogue number four-poles
			415V	690V					
DS1-160	63	22	35	15	44-63	25	1 / 20	44163	444163
DS1-160	80	22	35	15	56-80	25	1 / 20	44164	444164
DS1-160	100	22	35	15	70-100	50	1 / 20	44165	444165
DS1-160	125	22	35	15	88-125	50	1 / 20	44166	444166
DS1-160	160	22	35	15	112-160	70	1 / 20	44160	444160
DS1-160	160	22	35	15	fixed	70	1 / 20	441601	-

■ MCCB DS1-250



Type	Rated current In (A)	Operating breaking capacity Ics (kA)	Maximum breaking capacity Icu (kA)		Thermal current adjustment (A)	Section of the conductor (mm ²)	Packing/ Box (pcs)	Catalogue number three-poles	Catalogue number four-poles
			415V	690V					
DS1-250	200	35	50	15	140-200	120	1 / 8	44200	444200
DS1-250	250	35	50	15	175-250	120	1 / 8	44250	444250

■ MCCB DS1-400



Type	Rated current In (A)	Operating breaking capacity Ics (kA)	Maximum breaking capacity Icu (kA)		Thermal current adjustment (A)	Section of the conductor (mm ²)	Packing/ Box (pcs)	Catalogue number three-poles	Catalogue number four-poles
			415V	690V					
DS1-400	315	50	65	25	fixed	240	1 / 3	44315	444315
DS1-400	400	50	65	25	fixed	240	1 / 3	44401	444401

■ MCCB DS1-630/800



Type	Rated current In (A)	Operating breaking capacity Ics (kA)	Maximum breaking capacity Icu (kA)		Thermal current adjustment (A)	Section of the conductor (mm ²)	Packing/ Box (pcs)	Catalogue number three-poles	Catalogue number four-poles
			415V	690V					
DS1-630	500	65	75	25	fixed	185	1 / 2	44500	444500
DS1-630	630	65	75	25	fixed	185	1 / 2	44630	444630
DS1-630	800	70	85	30	fixed	240	1 / 2	44800	444800

▪ **MCCB DS1-1250**



Type	Rated current I _n (A)	Max. breaking capacity I _{cu} (kA)	Operating breaking capacity I _{cs} (kA)	Protection from overload	Section of the conductor (mm ²)	Packing/Box (pcs)	Catalogue number
DS1-1250	1000	85	65	fixed	240	1 / 1	44000
DS1-1250	1250	85	65	fixed	240	1 / 1	44502

Standards:

- EN 60947-1
- EN 60947-2

