Loadbreak disconnectors for wall mounting

Dilos 9S - 3150A
Dilos 9 - 4000A

Applications

Approvals / Marking

CESI certificate (3150A)

CE

Performance

Panel mounting
Main disconnector
Disconnect function
Visible contact indication
Quick make and quick break mechanism
Independent opening and closing
Positive contact indication (PCI)
Defeat mechanism rotary handle
Double knife contacts - high short-circuit resistance
Number of poles 3P - 4P

Standards

IEC 60947-1 and IEC 60947-3, DIN VDE 0660 Teil 107,
DIN VDE 0113 Teil 1, BS EN 60947-3, CEI 17-11 (Fasc. 1039),
EN 60947-3, NBN EN 60947-3, NF C 63-130

Technical data

Rated thermal current	*3150A*	*4000A*
Rated operational voltage Ue	1000V	1000V
Rated insulation voltage Ui	1500V	1500V
Peak short withstand circuit current	105kA	105kA
Rated short-circuit current	105kA	105kA
High 1s rated short time withstand Icw	50kA	50kA
Terminal capacity (Cu)	Cu-rail 2x100x10	Cu-rail 2x100x10

Fused disconnectors and disconn. with tripping device ● pg. B.42
Motorised disconn. and motorised changeover disconnectors ● pg. B.44
Manual changeover disconn. ● pg. B.48
6P disconnectors ● pg. B.48

Technical data ● pg. C.4
Dimensions ● pg. D.2 - D.6
Installation facilities ● pg. E.7

Dilos 9S - Loadbreak disconnectors for wall mounting

	Description	In (A)	Cat. no.	Ref. no.	Pack.
3P	Visible contacts. Without handle	3150	D/661393-251	**731654**	1
3P+N 50%	Visible contacts. Without handle	3150	D/661793-251	**731769**	1

Accessories

Double handles

D/661960-251 | **731788** | 1

Direct black and transparent main contact cover shield (3P)

D/662960-251 | **731884** (1) | 1

Black with extension shaft (300 mm - 12x12 mm) for door mounting - IP65 - Padlockable in OFF position (3 padlocks 6.3 mm) - keylockable (Keylock not included)

D/662960-252 | **731885** (1) | 1

Black with extension shaft (300 mm - 12x12 mm) for door mounting - IP65 - Padlockable in OFF position (3 padlocks 6.3 mm) with defeat mechanism - keylockable (Keylock not included)

Extension shaft

D/662960-200 | **731881** | 1

200 mm (12/12)

Contact cover

D/662962-227 | **731898** | 1

Transparent main contact cover shield (3P)

Keylock

D/062960-240 | **730857** | 1

With plug-in Fiat key (code H235)

Lockable in OFF position

Key removable in OFF position

Padlock system

D/661990-245 | **731800** | 1

For direct handle

Auxiliary contacts (CO)

D/661971-201 | **731794** | 1

1NO+1NC

D/661971-202 | **731795** | 1

2NO+2NC

Technical data, see page B.16

(1) Depth between the rear of the disconnector and the front of the enclosures door: max 423 mm.

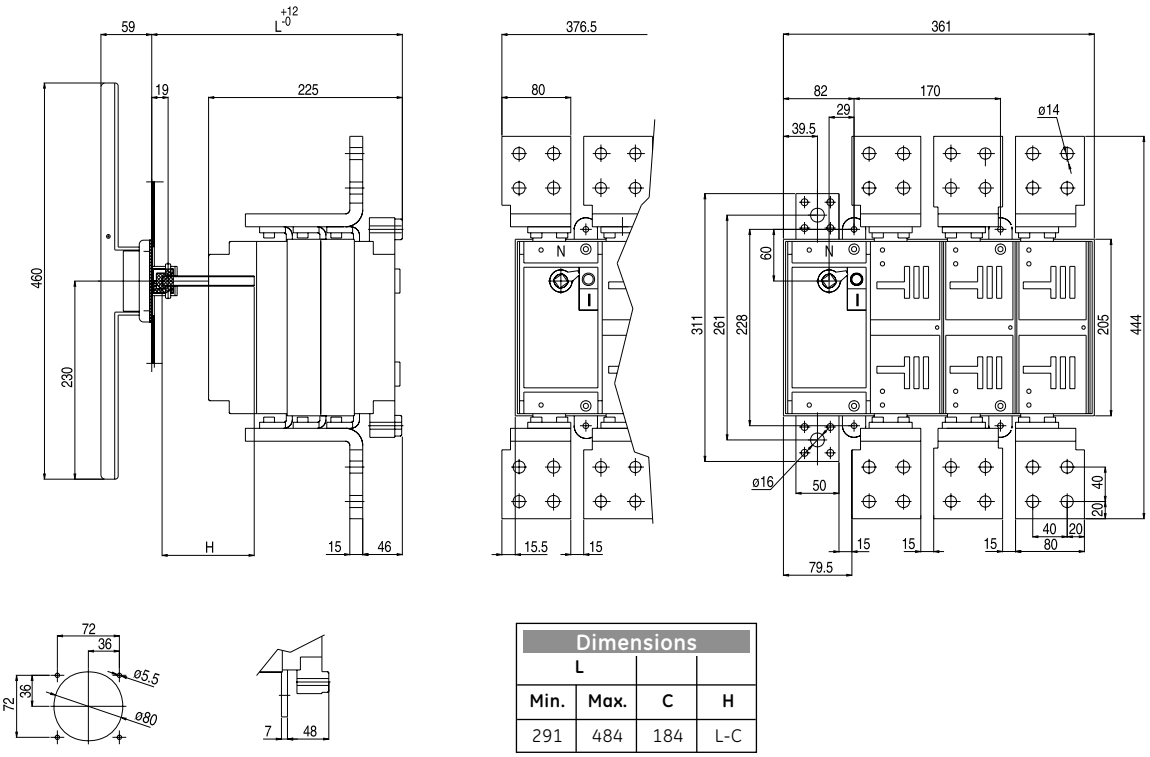
Dilos - Loadbreak disconnectors for wall mounting

			Dilos 1H	Dilos 1H	Dilos 1H	Dilos 3	Dilos 3	Dilos 3
Conventional enclosed thermal current Ithe = Ith		(A)	**40**	**63**	**125**	**160**	**200**	**250**
Number of poles			3/4	3/4	3/4	3/4	3/4	3/4
Frequency		(Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Rated thermal current at	40°C	(A)	40	63	125	160	200	250
	50°C	(A)	40	63	125	160	200	250
	60°C	(A)	40	63	125	160	200	250
Power loss per pole		(W)	0.9	2.2	8.5	3	4.8	7.5
Terminal capacity (Cu)	minimum	(mm^2)	6	6	6	Cu-rail	Cu-rail	Cu-rail
	maximum	(mm^2)	50	50	50	30x6	30x6	30x6
Maximum torque on terminals		(Nm)	12	12	12	12	12	12
Rated operational voltage Ue		(V)	690	690	690	690	690	690
Rated insulation voltage Ui		(V)	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage (2000m) Uimp		(kV)	8	8	8	8	8	8
Impulse test voltage at sea level		(kV)	12.3	12.3	12.3	12.3	12.3	12.3
Rated operational current Ie	Ue=400V	(A)	40	63	125	160	200	250
AC21A up to 250A	Ue=415V	(A)	40	63	125	160	200	250
AC21B from 315A	Ue=500V	(A)	40	63	125	160	200	250
	Ue=690V	(A)	40	63	125	160	200	250
Rated operational current Ie	Ue=400V	(A)	40	63	125	160	200	250
AC22A up to 250A	Ue=415V	(A)	40	63	125	160	200	250
AC22B from 315A	Ue=500V	(A)	40	63	125	160	200	250
	Ue=690V	(A)	40	63	125	160	200	250
Rated operational current Ie	Ue=400V	(A)	40	63	125	160	200	250
AC23A up to 250A	Ue=415V	(A)	40	63	125	160	200	250
AC23B from 315A	Ue=500V	(A)	40	63	125	160	200	250
	Ue=690V	(A)	40	50	50	160	200	250
Maximum rated operational power	Ue=400V	(kW)	21	30	69	88	88	135
at rated duty AC23	Ue=415V	(kW)	22	33	72	92	92	140
	Ue=500V	(kW)	27	44	86	110	175	175
	Ue=690V	(kW)	36	45	45	140	190	190
Rated making and breaking capacity	making 10 x Ie	(A)	400	630	1250	1600	2000	2500
at 500Vac 23A	breaking 8 x Ie	(A)	320	504	1000	1280	1600	2000
Rated short time withstand Icw	1 s.	(kA rms)	3	3	3	9	9	9
	0.25 s.	(kA rms)	6	6	6	15	15	15
Rated short-circuit making capacity Icm	Ue=400V	(kA peak)	10	10	10	30	30	30
	Ue=415V	(kA peak)	10	10	10	30	30	30
	Ue=500V	(kA peak)	7	7	7	30	30	30
	Ue=690V	(kA peak)	7	7	7	30	30	30
Rated conditional short-circuit current	400V	(kA)	50	50	50	100	100	100
with back-up protection featuring the	415V	(kA)	50	50	50	100	100	100
same current rating as the switch (kA ms)	500V	(kA)	50	50	50	100	100	100
	690V	(kA)	33	33	33	100	100	100
Rated capacity power at 400V		(kVAR)	19	30	60	77	97	120
Rated operational current DC23A	2P in series 110V	(A)	40	63	100	160	200	250
	2P in series 220V	(A)	40	63	-	100	160	160
	4P in series 220V	(A)	-	-	100	160	200	250
Operating torque		(Nm)	8	8	8	12	12	12
Force		(N)	80	80	80	120	120	120
Durability (number of operational cycles)	electrical		5000	2000	1000	3000	1000	1000
	mechanical (min)		15000	15000	10000	10000	10000	10000
UL listed following UL file E143291 (acc UL508)								
UL 508 General Use 480V	In	A	30	60	100	-	-	-
UL 508 Manual motor controller 480V	FLA	A	-	-	-	-	-	-
	Power	(HP)	-	-	-	-	-	-
UL short-circuit at 480V	K5fu	(kA)	10	10	10	-	-	-
	UL J-fuses	(kA)	50	50	50	-	-	-
Weight	2P	(kg)	-	-	-	-	-	-
	3P	(kg)	1.18	1.18	1.18	2.75	2.75	2.75
	4P	(kg)	1.25	1.25	1.25	2.90	2.90	2.90

Dilos 3	Dilos 4	Dilos 4	Dilos 4	Dilos 6S 35/50kA	Dilos 6S 35/50kA	Dilos 6S 35/50kA	Dilos 7S	Dilos 8S	Dilos 8S	Dilos 9S	Dilos 9
315	**400**	**500**	**630**	**800**	**1000**	**1250**	**1600**	**2000**	**2500**	**3150**	**4000**
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000
315	400	500	630	720	900	1125	1440	1800	2250	2835	3600
315	400	500	630	640	800	1000	1280	1600	2000	2520	3200
12	10.5	16	26	29	45	70	95	103	133	420	500
Cu-rail	Cu-rail	Cu-rail	Cu-rail	Cu-rail	Cu-rail	Cu-rail	Cu-rail	Cu-rail	Cu-rail	Cu-rail	Cu-rail
30x6	40x6	40x6	40x6	2x50x5	2x50x6	2x50x8	2x60x10	2x80x10	2x80x10	4x100x10	4x100x10
12	60	60	60	35	35	35	35	35	35	35	35
690	690	690	690	1000	1000	1000	1000	1000	1000	1000	1000
1000	1000	1000	1000	1500	1500	1500	1500	1500	1500	1500	1500
8	8	8	8	12	12	12	8	8	8	8	8
12.3	12.3	12.3	12.3	18.5	18.5	18.5	12.3	12.3	12.3	12.3	12.3
315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000
315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000
315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000
315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000
315	400	500	630	800	1000	1250	1600	2000	2500	-	-
315	400	500	630	800	1000	1250	1600	2000	2500	-	-
315	400	500	630	800	1000	1250	1250	1250	1250	-	-
315	400	500	630	800	1000	1250	1000	1000	800	-	-
315	400	500	630	800	1000	1250	1250	1250	-	-	-
315	400	500	630	800	1000	1250	1250	1250	-	-	-
315	400	500	630	630	800	800	800	800	-	-	-
200	400	400	450	500	630	630	630	630	-	-	-
165	218	270	335	-	-	-	-	-	-	-	-
175	230	285	375	-	-	-	-	-	-	-	-
220	295	370	405	-	-	-	-	-	-	-	-
190	390	440	440	-	-	-	-	-	-	-	-
3150	4000	5000	6300	8000	10000	12500	16000	20000	-	-	-
2520	3200	4000	5040	6400	8000	10000	12800	16000	-	-	-
9	20	20	20	35 / 50	35 / 50	35 / 50	50	50	50	50	50
15	35	35	35	70 /100	70 /100	70 /100	120	120	140	140	100
30	60	60	60	73.5 /105	73.5 /105	73.5 /105	105	105	105	105	105
30	60	60	60	73.5 /105	73.5 /105	73.5 /105	105	105	105	105	105
30	60	60	60	-	-	-	-	-	-	-	-
30	60	60	60	-	-	-	-	-	-	-	-
70	100	100	100	50	50	50	50	50	50	50	50
70	100	100	100	50	50	50	50	50	50	50	50
50	100	100	100	-	-	-	-	-	-	-	-
50	100	100	100	-	-	-	-	-	-	-	-
152	193	242	305	380	475	600	780	850	1100	1250	-
315	400	-	-	800	1000	1250	800	800	-	-	-
160	-	-	-	800	1000	1000	800	800	-	-	-
315	400	-	-	-	-	-	-	-	-	-	-
12	40	40	40	45 /70	45 /70	45 /70	70	70	70	70	150
120	333	333	333	160	160	160	174	174	174	174	330
800	1000	700	500	1000	1000	1000	1000	500	500	500	500
10000	5000	5000	5000	4000	4000	4000	4000	2500	2500	2500	2500
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
2.75	9.00	9.00	9.00	11	11	11	17	19	27	40	84
2.90	9.60	9.60	9.60	12	12	12	19	20	30	44	108

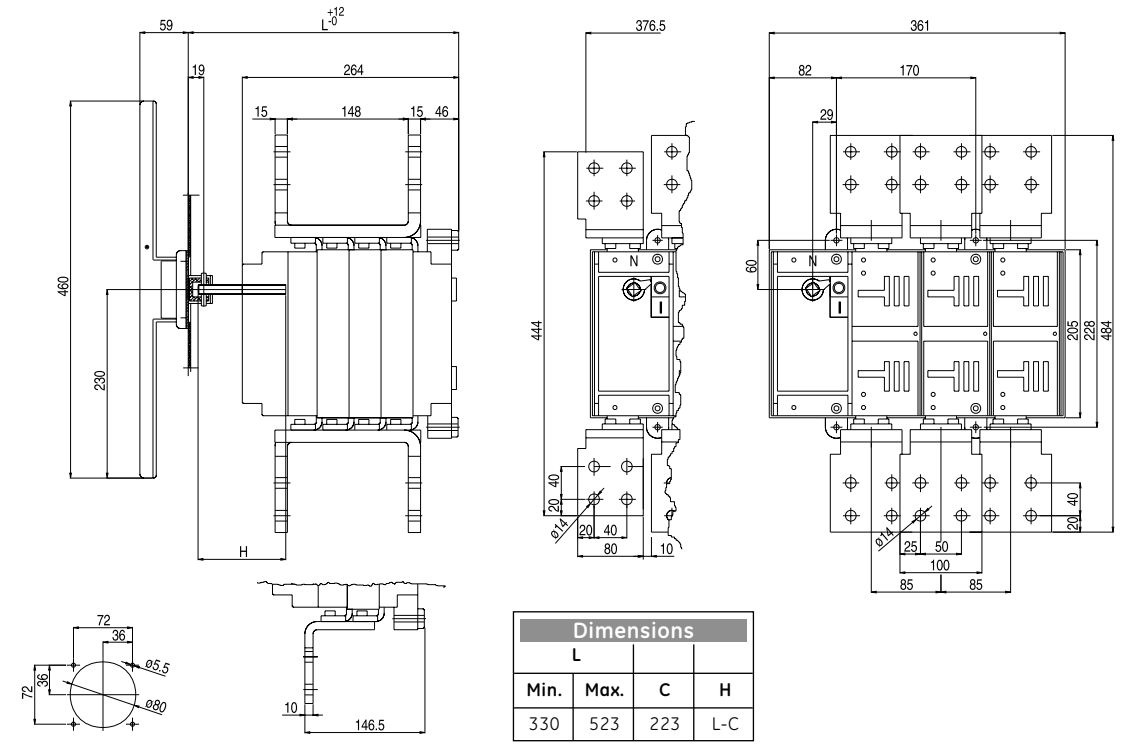
Dimensions

Dilos 8S - 2500A



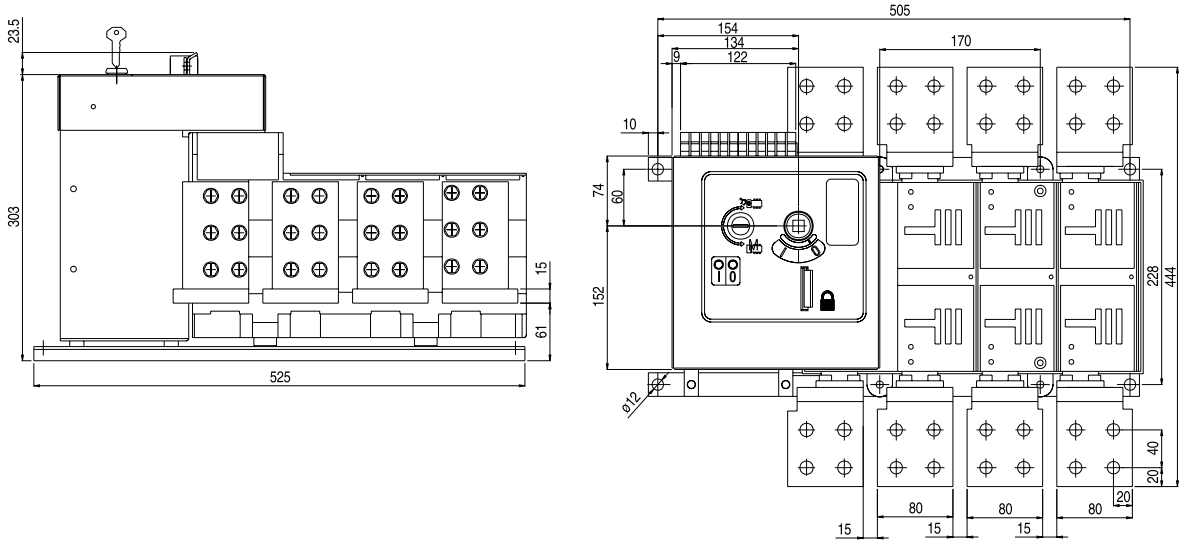
Dimensions			
L			
Min.	Max.	C	H
291	484	184	L-C

Dilos 9S



Dimensions			
L			
Min.	Max.	C	H
330	523	223	L-C

Dilos 8S MO - 2500A



Dilos 9S MO