

Circuit Protection Devices

Loadline Moulded Case Circuit Breakers

Frame	YB1N			YA2N			YA2S			YA2J			YB3N		
	1	3	4	1	3	4	3	—	4	3	4	1	3	4	
Maximum amps	160	—	—	125	—	—	125	—	—	125	—	—	250	—	
No. of poles	N	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	
Adjustable thermal	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Rated current (A). [In]	Nom	Adj min	Adj max	Nom	Adj min	Adj max									
16	16	10	16	16	—	—	—	—	—	—	—	—	—	—	
20	20	13	20	20	13	20	—	—	—	—	—	—	—	—	
25	25	—	—	25	—	—	—	—	—	—	—	—	—	—	
32	32	20	32	32	20	32	20	32	20	32	20	32	—	—	
40	40	—	—	40	—	—	—	—	—	—	—	—	—	—	
50	50	32	50	50	32	50	32	50	32	50	32	50	32	50	
63	63	40	63	63	40	63	40	63	40	63	40	63	40	63	
80	80	—	—	80	—	—	—	—	—	—	—	—	—	—	
100	100	63	100	100	63	100	63	100	63	100	63	100	63	100	
125	125	80	125	125	80	125	80	125	80	125	80	125	80	125	
160	—	100	160	—	—	—	—	—	—	—	—	100	160	—	
200	—	125	—	—	—	—	—	—	—	—	—	125	200	—	
250	—	160	—	—	—	—	—	—	—	—	—	160	250	—	
400	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Rated impulse withstand voltage Uimp [kV]	8	—	—	8	—	—	8	—	—	8	—	—	8	—	
AC rated insulation voltage [Ui]	690	—	—	800	—	—	800	—	—	800	—	—	690	—	
AC rated breaking capacity	Icu	Icu	Ics	Icu	Icu	Ics									
IEC 947-2	690V	—	—	—	—	—	6	6	6	6	—	—	—	—	
EN 60947-2	525V	—	7.5	4	—	8	6	22	22	25	22	7.5	6	—	
BS EN60947-2	440V	—	13	7.5	—	15	12	25	25	25	25	15	12	—	
	415V	—	25	13	—	25	19	36	36/30	65	36/33	25	19	—	
	400V	—	25	13	—	25	19	36	36/30	65	36/33	25	19	—	
	380V	—	25	13	—	25	19	36	36/30	65	36/33	25	19	—	
	240V	25	35	25	25	35	27	50	50	85	85	35	27	—	
	220V	—	35	25	—	35	27	50	50	85	85	35	27	—	
NEMA AB-1	600V	—	—	—	—	—	—	—	—	—	—	—	—	—	
	480V	—	—	—	—	8	—	22	—	22	—	22	—	—	
	240V	—	—	—	—	35	—	50	—	50	—	50	—	—	
Without instantaneous	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
240-690V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
DC rated breaking capacity [kA]	250V	—	7	7	—	25	19	25	19	40	40	15	12	—	
Rated short time current r.m.s. [kA] [Icw]	125V	—	10	10	—	—	—	—	—	—	—	25	19	—	
Utilisation category	A	—	—	A	—	—	A	—	—	A	—	A	—	—	

Notes: *Value at 1/3 times stated voltage. ** Not applicable to IT systems at voltage shown.

Circuit Protection Devices

Loadline Moulded Case Circuit Breakers

Frame	YA3N			YA3S		YA3J		YA5N		YA5H	
Maximum amps	250			250		250		400		400	
No. of poles	1	3	4	3	4	3	4	3	4	3	4
Adjustable thermal	N	Y		Y		Y		Y		Y	
Adjustable magnetics	N	N		Y		Y		Y		N	
Rated current (A). [In]	Nom	Adj		Adj							
		min	max								
16	16	-	-	-	-	-	-	-	-	-	-
20	20	13	20	13	20	-	-	-	-	-	-
25	25	-	-	-	-	-	-	-	-	-	-
32	32	20	32	20	32	20	32	-	-	-	-
40	40	-	-	-	-	-	-	-	-	-	-
50	50	32	50	32	50	32	50	-	-	-	-
63	63	40	63	40	63	40	63	-	-	-	-
80	80	-	-	-	-	-	-	-	-	-	-
100	100	63	100	63	100	63	100	-	-	-	-
125	125	80	125	80	125	80	125	-	-	-	-
160	160	100	160	100	160	100	160	-	-	-	-
200	-	125	200	125	200	125	200	-	-	-	-
250	-	160	250	160	250	160	250	160	250	160	250
400	-	-	-	-	-	-	-	250	400	250	400
Rated impulse withstand voltage Uimp [kV]	8			8		8		8		8	
AC rated insulation voltage [Ui]	800			800		800		800		800	
AC rated breaking capacity	Icu	Icu	Ics								
IEC 947-2	690V	-	-	7.5	7.5	7.5	7.5	-	-	20	15
EN 60947-2	525V	-	10	7.5	25	25	25	15	15	30	30
CEI EN 60947-2	440V	-	15	12	25	25	25	22	22	45	45
	415V	-	25	19	36***	36***	65	65	25	50	50
	400V	-	25	19	36***	36***	65	65	25	50	50
	380V	-	25	19	36***	36***	65	65	25	50	50
	240V	25	35	27	65	65	85	85	35	35	85
	220V	25	35	27	65	65	85	85	35	35	85
	NEMA AB-1	600V	-	-	-	-	-	-	-	-	-
	480V	-	10	-	22	-	22	-	15	-	22
	240V	-	35	-	65	-	85	-	35	-	50
Without instantaneous											
240-690V	-	-	-	-	-	-	-	-	-	-	-
DC rated breaking capacity [kA]	250V	19	25	25	40	40	40	25	25	40	40
	125V										
Rated short time current r.m.s. [kA] [Icw]	-			-		-		-		-	
Utilisation category	A			A		A		A		A	

Notes: *Value at 1/3 times stated voltage. ** Not applicable to IT systems at voltage shown. *** 20A and 32A only rated at 30kA at this voltage.

Circuit Protection Devices

Loadline Moulded Case Circuit Breakers

Frame	YA5H Electronic		YA5K Electronic		Y6H Thermal/ Magnetic and Generator		Y6K Thermal/ Magnetic	
Maximum amps	400		400		800A		800A	
No. of poles	3	4	3	4	3	4	3	4
Adjustable thermal	Y		Y		Y		Y	
Adjustable magnetics	Y		Y		Y		Y	
Rated current (A). [In]	Adj	Adj	Adj	Adj	Nom	Adj	Nom	Adj
	min	max	min	max		min	max	min
50	-	-	-	-	-	-	-	-
63	-	-	-	-	-	-	-	-
80	-	-	-	-	-	-	-	-
100	-	-	-	-	-	-	-	-
125	-	-	-	-	-	-	-	-
160	-	-	-	-	-	-	-	-
200	-	-	-	-	-	-	-	-
250	100	250	100	250	-	-	-	-
400	160	400	160	400	400	250	400	400
630	-	-	-	-	630	400	630	630
800	-	-	-	-	800	500	800	800
1000	-	-	-	-	-	-	-	-
1250	-	-	-	-	-	-	-	-
1600	-	-	-	-	-	-	-	-
Rated impulse withstand voltage Uimp [kV]	8		8		8		8	
AC rated insulation voltage [Ui]	800		800		690		690	
AC rated breaking symmetrical r.m.s. [kA]	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics
IEC 947-2	690V	20	15	20	15	20	10**	45
EN 60947-2	525V	30	30	30	30	-	-	-
BS EN 60947-2	500V	-	-	-	-	35	18**	65
	415V	50	50	70	50	50	25	85
	400V	50	50	70	50	65	33	100
	380V	50	50	70	50	65	33	100
	240V	85	85	100	85	85	43	125
	220V	85	35	100	85	85	43	125
NEMA AB-1	600V	-	-	-	-	30	-	-
	480V	25	-	30	-	-	-	-
	400V	-	-	-	-	50	-	-
	240V	-	85	-	100	-	85	-
Without instantaneous								
240-690V	-	-	-	-	-	-	-	-
DC rated breaking capacity [kA]	250V	-	-	-	50	50	50	50
125V	-	-	-	-	50	50	50	50
Rated short time current r.m.s. [kA] [Icw]	5		5		-		-	
Utilisation category	B		B		A		A	

Notes: *Value at 1/3 times stated voltage. ** Not applicable to IT systems at voltage shown.

Circuit Protection Devices

Loadline Moulded Case Circuit Breakers

Frame	Y6H-E Electronic			Y6J-E Electronic			Y7J-E Electronic			Y8K-E Electronic					
Rated current (A). [In]	Nom	Adj		Nom	Adj		Nom	Adj		Nom	Adj				
			min		max				min		max				
50	-	-	-	-	-	-	-	-	-	-	-				
63	-	-	-	-	-	-	-	-	-	-	-				
80	-	-	-	-	-	-	-	-	-	-	-				
100	-	-	-	-	-	-	-	-	-	-	-				
125	-	-	-	-	-	-	-	-	-	-	-				
160	-	-	-	-	-	-	-	-	-	-	-				
200	-	-	-	-	-	-	-	-	-	-	-				
250	-	-	-	-	-	-	-	-	-	-	-				
400	-	-	-	-	-	-	-	-	-	-	-				
630	630	315	630	630	315	630	-	-	-	-	-				
800	800	400	800	800	400	800	-	-	-	-	-				
1000	-	-	-	-	-	-	1000	500	1000	-	-				
1250	-	-	-	-	-	-	1250	630	1250	-	-				
1600	-	-	-	-	-	-	-	-	-	1600	800				
Rated impulse withstand voltage Uimp [kV]	8			8			8			8					
AC rated insulation voltage [Ui]	690			690			690			690					
AC rated breaking symmetrical r.m.s. [kA]	Icu	Ics		Icu	Ics		Icu	Ics		Icu	Ics				
IEC 947-2	690V	20	10**	20	10**	25	19**	35	35**						
EN 60947-2	500V	35	18**	42	21**	45	34**	65	49**						
BS EN 60947-2	400V	50	25	65	50	65	49	85	64						
	415V	50	25	65	50	65	49	85	64						
	400V	50	25	65	50	85	64	100	75						
	380V	50	25	65	50	85	64	100	75						
	240V	85	43	100	50	100	75	125	94						
	220V	85	43	100	50	100	75	125	94						
NEMA AB-1	600V	30		-		42		-		-					
	400V	50		-		65		-		-					
	240V	85		-		85		-		-					
Without instantaneous	240-690V	10		10		15		20		-					
DC rated breaking capacity [kA]	250V	-		-		-		-		-					
	125V	-		-		-		-		-					
Rated short time current r.m.s. [kA] [Icw]	10 (0.3 sec)			10 (0.3 sec)			15 (0.3 sec)			20 (0.3 sec)					
Utilisation category	B			B			B			B					

Notes: *Value at 1/3 times stated voltage. ** Not applicable to IT systems at voltage shown.