

# Loadline YS Series 5

## Moulded Case Circuit Breakers





# Dorman Smith Switchgear Limited

With over 130 years of experience in switchgear design and production Dorman Smith Switchgear Limited continues to provide high quality equipment for low-voltage electrical distribution and circuit protection.

Our product range begins with single-pole and neutral distribution board systems and continues up to custom designed, factory built low-voltage electrical switchboards for a broad range of commercial, industrial and retrofit applications.

We continue to build on our extensive technical knowledge and awareness of customer and market demands, operating conditions and current regulations.

This breadth of experience supports the development and manufacturing techniques of our electrical products to exceed the industry standards.

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# Loadline YS Series 5



# Loadline YS MCCB YS2 Frame 36kA Thermal Magnetic

### Main features

- Exceeds the requirements of IEC / EN 60947-2
- TF MCCB Type have fixed thermal and fixed magnetic overloads
- TA MCCB Type have adjustable thermal and fixed magnetic overloads
- Thermal overload adjusts to 1 x In, 0.9 x In and 0.8 x In
- Ultimate breaking capacity available is 36kA at 415VAC Icu
- Fully rated for use at 55°C
- Rated insulation voltage is 800V AC
- 3-Pole Product dimensions are 150 x 90 x 90 (H x W x D mm)
- 4-Pole Product dimensions are 150 x 120 x 90 (H x W x D mm)

Current Rating (A)	TF MCCB Type 36kA Fixed Thermal & Fixed Magnetic		TA MCCB Type 36kA Adjustable Thermal & Fixed Magnetic	
	3-Pole Product Code	4-Pole Product Code	3-Pole Product Code	4-Pole Product Code
	16	YS2S3P16TF5	YS2S4P16TF5	YS2S3P16TA5
20	YS2S3P20TF5	YS2S4P20TF5	YS2S3P20TA5	YS2S4P20TA5
25	YS2S3P25TF5	YS2S4P25TF5	YS2S3P25TA5	YS2S4P25TA5
30	YS2S3P30TF5	YS2S4P30TF5	YS2S3P30TA5	YS2S4P30TA5
32	YS2S3P32TF5	YS2S4P32TF5	YS2S3P32TA5	YS2S4P32TA5
40	YS2S3P40TF5	YS2S4P40TF5	YS2S3P40TA5	YS2S4P40TA5
50	YS2S3P50TF5	YS2S4P50TF5	YS2S3P50TA5	YS2S4P50TA5
60	YS2S3P60TF5	YS2S4P60TF5	YS2S3P60TA5	YS2S4P60TA5
63	YS2S3P63TF5	YS2S4P63TF5	YS2S3P63TA5	YS2S4P63TA5
70	YS2S3P70TF5	YS2S4P70TF5	YS2S3P70TA5	YS2S4P70TA5
80	YS2S3P80TF5	YS2S4P80TF5	YS2S3P80TA5	YS2S4P80TA5
90	YS2S3P90TF5	YS2S4P90TF5	YS2S3P90TA5	YS2S4P90TA5
100	YS2S3P100TF5	YS2S4P100TF5	YS2S3P100TA5	YS2S4P100TA5
125	YS2S3P125TF5	YS2S4P125TF5	YS2S3P125TA5	YS2S4P125TA5
140	YS2S3P140TF5	YS2S4P140TF5	YS2S3P140TA5	YS2S4P140TA5
150	YS2S3P150TF5	YS2S4P150TF5	YS2S3P150TA5	YS2S4P150TA5
160	YS2S3P160TF5	YS2S4P160TF5	YS2S3P160TA5	YS2S4P160TA5

**Note:** For devices configured to 40°C, please exchange the “5” at the end of the product code to a “4”

## Loadline YS MCCB YS2 Frame 50kA Thermal Magnetic

## Loadline YS Series 5

### Main features

- Exceeds the requirements of IEC / EN 60947-2
- TF MCCB Type have fixed thermal and fixed magnetic overloads
- TA MCCB Type have adjustable thermal and fixed magnetic overloads
- Thermal overload adjusts to 1 x I<sub>n</sub>, 0.9 x I<sub>n</sub> and 0.8 x I<sub>n</sub>
- Ultimate breaking capacity is 50kA at 415VAC I<sub>cu</sub>
- Fully rated for use at 55°C
- Rated insulation voltage is 800V AC
- 3-Pole Product dimensions are 150 x 90 x 108 (H x W x D mm)
- 4-Pole Product dimensions are 150 x 120 x 108 (H x W x D mm)



Current Rating (A)	TF MCCB Type 50kA Fixed Thermal & Fixed Magnetic		TA MCCB Type 50kA Adjustable Thermal & Fixed Magnetic	
	3-Pole Product Code	4-Pole Product Code	3-Pole Product Code	4-Pole Product Code
	16	YS2H3P16TF5	YS2H4P16TF5	YS2H3P16TA5
20	YS2H3P20TF5	YS2H4P20TF5	YS2H3P20TA5	YS2H4P20TA5
25	YS2H3P25TF5	YS2H4P25TF5	YS2H3P25TA5	YS2H4P25TA5
30	YS2H3P30TF5	YS2H4P30TF5	YS2H3P30TA5	YS2H4P30TA5
32	YS2H3P32TF5	YS2H4P32TF5	YS2H3P32TA5	YS2H4P32TA5
40	YS2H3P40TF5	YS2H4P40TF5	YS2H3P40TA5	YS2H4P40TA5
50	YS2H3P50TF5	YS2H4P50TF5	YS2H3P50TA5	YS2H4P50TA5
60	YS2H3P60TF5	YS2H4P60TF5	YS2H3P60TA5	YS2H4P60TA5
63	YS2H3P63TF5	YS2H4P63TF5	YS2H3P63TA5	YS2H4P63TA5
70	YS2H3P70TF5	YS2H4P70TF5	YS2H3P70TA5	YS2H4P70TA5
80	YS2H3P80TF5	YS2H4P80TF5	YS2H3P80TA5	YS2H4P80TA5
90	YS2H3P90TF5	YS2H4P90TF5	YS2H3P90TA5	YS2H4P90TA5
100	YS2H3P100TF5	YS2H4P100TF5	YS2H3P100TA5	YS2H4P100TA5
125	YS2H3P125TF5	YS2H4P125TF5	YS2H3P125TA5	YS2H4P125TA5
140	YS2H3P140TF5	YS2H4P140TF5	YS2H3P140TA5	YS2H4P140TA5
150	YS2H3P150TF5	YS2H4P150TF5	YS2H3P150TA5	YS2H4P150TA5
160	YS2H3P160TF5	YS2H4P160TF5	YS2H3P160TA5	YS2H4P160TA5

**Note:** For devices configured to 40°C, please exchange the “5” at the end of the product code to a “4”

## Loadline YS Series 5



## Loadline YS MCCB YS2 Frame 36kA Electronic

### Main features

- Exceeds the requirements of IEC / EN 60947-2
- E MCCB Type have adjustable long time, short time and instantaneous trip functions
- Ultimate breaking capacity is 36kA at 415VAC Icu
- Fully rated for use at 55°C
- Rated insulation voltage is 800V AC
- 3-Pole Product dimensions are 150 x 90 x 90 (H x W x D mm)
- 4-Pole Product dimensions are 150 x 120 x 90 (H x W x D mm)

E MCCB Type 36kA Electronic		
Current Rating (A)	3-Pole Product Code	4-Pole Product Code
16	YS2S3P16E5	YS2S4P16E5
20	YS2S3P20E5	YS2S4P20E5
25	YS2S3P25E5	YS2S4P25E5
30	YS2S3P30E5	YS2S4P30E5
32	YS2S3P32E5	YS2S4P32E5
40	YS2S3P40E5	YS2S4P40E5
50	YS2S3P50E5	YS2S4P50E5
60	YS2S3P60E5	YS2S4P60E5
63	YS2S3P63E5	YS2S4P63E5
70	YS2S3P70E5	YS2S4P70E5
80	YS2S3P80E5	YS2S4P80E5
90	YS2S3P90E5	YS2S4P90E5
100	YS2S3P100E5	YS2S4P100E5
125	YS2S3P125E5	YS2S4P125E5

**Note:** For devices configured to 40°C, please exchange the “5” at the end of the product code to a “4”

# Loadline YS MCCB

## YS3 Frame 36kA Thermal Magnetic

# Loadline YS

## Series 5

### Main features

- Exceeds the requirements of IEC / EN 60947-2
- TF MCCB Type have fixed thermal and fixed magnetic overloads
- TA MCCB Type have adjustable thermal and fixed magnetic overloads
- Thermal overload adjusts to 1 x In, 0.9 x In and 0.8 x In
- 1-Pole Ultimate breaking capacity available is 25kA at 415VAC Icu
- 3-Pole & 4-Pole Ultimate breaking capacity available is 36kA at 415VAC Icu
- Fully rated for use at 55°C
- Rated insulation voltage is 800V AC
- 1-Pole Product dimensions are 155 x 35 x 88 (H x W x D mm)
- 3-Pole Product dimensions are 165 x 105 x 109 (H x W x D mm)
- 4-Pole Product dimensions are 165 x 140 x 109 (H x W x D mm)



Current Rating (A)	TF MCCB Type 25kA Fixed Thermal & Fixed Magnetic	TF MCCB Type 36kA Fixed Thermal & Fixed Magnetic		TA MCCB Type 36kA Adjustable Thermal & Fixed Magnetic	
	1-Pole Product Code	3-Pole Product Code	4-Pole Product Code	3-Pole Product Code	4-Pole Product Code
10	YS3NIP10TF5	-	-	-	-
16	YS3NIP16TF5	-	-	-	-
20	YS3NIP20TF5	-	-	-	-
25	YS3NIP25TF5	-	-	-	-
30	-	-	-	-	-
32	YS3NIP32TF5	-	-	-	-
40	YS3NIP40TF5	-	-	-	-
50	YS3NIP50TF5	-	-	-	-
60	-	-	-	-	-
63	YS3NIP63TF5	-	-	-	-
70	-	-	-	-	-
80	YS3NIP80TF5	-	-	-	-
90	YS3NIP90TF5	-	-	-	-
100	YS3NIP100TF5	YS3S3P100TF5	YS3S4P100TF5	YS3S3P100TA5	YS3S4P100TA5
125	YS3NIP125TF5	YS3S3P125TF5	YS3S4P125TF5	YS3S3P125TA5	YS3S4P125TA5
140		YS3S3P140TF5	YS3S4P140TF5	YS3S3P140TA5	YS3S4P140TA5
150		YS3S3P150TF5	YS3S4P150TF5	YS3S3P150TA5	YS3S4P150TA5
160		YS3S3P160TF5	YS3S4P160TF5	YS3S3P160TA5	YS3S4P160TA5
175		YS3S3P175TF5	YS3S4P175TF5	YS3S3P175TA5	YS3S4P175TA5
180		YS3S3P180TF5	YS3S4P180TF5	YS3S3P180TA5	YS3S4P180TA5
200		YS3S3P200TF5	YS3S4P200TF5	YS3S3P200TA5	YS3S4P200TA5
225		YS3S3P225TF5	YS3S4P225TF5	YS3S3P225TA5	YS3S4P225TA5
250		YS3S3P250TF5	YS3S4P250TF5	YS3S3P250TA5	YS3S4P250TA5

**Note:** For devices configured to 40°C, please exchange the "5" at the end of the product code to a "4"

## Loadline YS Series 5



## Loadline YS MCCB YS3 Frame 50kA Thermal Magnetic

### Main features

- Exceeds the requirements of IEC / EN 60947-2
- TF MCCB Type have fixed thermal and fixed magnetic overloads
- TA MCCB Type have adjustable thermal and fixed magnetic overloads
- Thermal overload adjusts to 1 x In, 0.9 x In and 0.8 x In
- Ultimate breaking capacity available is 50kA at 415VAC Icu
- Fully rated for use at 55°C
- Rated insulation voltage is 800V AC
- 3-Pole Product dimensions are 165 x 105 x 128 (H x W x D mm)
- 4-Pole Product dimensions are 165 x 140 x 128 (H x W x D mm)

Current Rating (A)	TF MCCB Type 50kA Fixed Thermal & Fixed Magnetic		TA MCCB Type 50kA Adjustable Thermal & Fixed Magnetic	
	3-Pole Product Code	4-Pole Product Code	3-Pole Product Code	4-Pole Product Code
	100	YS3H3P100TF5	YS3H4P100TF5	YS3H3P100TA5
125	YS3H3P125TF5	YS3H4P125TF5	YS3H3P125TA5	YS3H4P125TA5
140	YS3H3P140TF5	YS3H4P140TF5	YS3H3P140TA5	YS3H4P140TA5
150	YS3H3P150TF5	YS3H4P150TF5	YS3H3P150TA5	YS3H4P150TA5
160	YS3H3P160TF5	YS3H4P160TF5	YS3H3P160TA5	YS3H4P160TA5
175	YS3H3P175TF5	YS3H4P175TF5	YS3H3P175TA5	YS3H4P175TA5
180	YS3H3P180TF5	YS3H4P180TF5	YS3H3P180TA5	YS3H4P180TA5
200	YS3H3P200TF5	YS3H4P200TF5	YS3H3P200TA5	YS3H4P200TA5
225	YS3H3P225TF5	YS3H4P225TF5	YS3H3P225TA5	YS3H4P225TA5
250	YS3H3P250TF5	YS3H4P250TF5	YS3H3P250TA5	YS3H4P250TA5

## Loadline YS MCCB YS3 Frame 36kA Electronic

### Main features

- Exceeds the requirements of IEC / EN 60947-2
- E MCCB Type have adjustable long time, short time and instantaneous trip functions
- Ultimate breaking capacity is 36kA at 415VAC Icu
- Fully rated for use at 55°C
- Rated insulation voltage is 800V AC
- 3-Pole Product dimensions are 165 x 105 x 90 (H x W x D mm)
- 4-Pole Product dimensions are 165 x 140 x 90 (H x W x D mm)

Current Rating (A)	E MCCB Type 36kA Electronic	
	3-Pole Product Code	4-Pole Product Code
125	YS3S3P125E5	YS3S4P125E5
140	YS3S3P140E5	YS3S4P140E5
150	YS3S3P150E5	YS3S4P150E5
160	YS3S3P160E5	YS3S4P160E5
175	YS3S3P175E5	YS3S4P175E5
180	YS3S3P180E5	YS3S4P180E5
200	YS3S3P200E5	YS3S4P200E5
225	YS3S3P225E5	YS3S4P225E5
250	YS3S3P250E5	YS3S4P250E5

**Note:** For devices configured to 40°C, please exchange the "5" at the end of the product code to a "4"



## Loadline YS MCCB YS5 Frame 65kA Thermal Magnetic

## Loadline YS Series 5

### Main features

- Exceeds the requirements of IEC / EN 60947-2
- TF MCCB Type have fixed thermal and fixed magnetic overloads
- TA MCCB Type have adjustable thermal and fixed magnetic overloads
- Thermal overload adjusts to 1 x In, 0.9 x In and 0.8 x In
- Ultimate breaking capacity available is 65kA at 415VAC Icu
- Fully rated for use at 55°C
- Rated insulation voltage is 800V AC
- 3-Pole Product dimensions are 257 x 150 x 149 (H x W x D mm)
- 4-Pole Product dimensions are 257 x 200 x 149 (H x W x D mm)



Current Rating (A)	TF MCCB Type 65kA Fixed Thermal & Fixed Magnetic		TA MCCB Type 65kA Adjustable Thermal & Fixed Magnetic	
	3-Pole Product Code	4-Pole Product Code	3-Pole Product Code	4-Pole Product Code
	225	YS5J3P225TF5	YS5J4P225TF5	YS5J3P225TA5
250	YS5J3P250TF5	YS5J4P250TF5	YS5J3P250TA5	YS5J4P250TA5
280	YS5J3P280TF5	YS5J4P280TF5	YS5J3P280TA5	YS5J4P280TA5
300	YS5J3P300TF5	YS5J4P300TF5	YS5J3P300TA5	YS5J4P300TA5
315	YS5J3P315TF5	YS5J4P315TF5	YS5J3P315TA5	YS5J4P315TA5
350	YS5J3P350TF5	YS5J4P350TF5	YS5J3P350TA5	YS5J4P350TA5
400	YS5J3P400TF5	YS5J4P400TF5	YS5J3P400TA5	YS5J4P400TA5

## Loadline YS MCCB YS5 Frame 85kA Thermal Magnetic

### Main features

- Exceeds the requirements of IEC / EN 60947-2
- TF MCCB Type have fixed thermal and fixed magnetic overloads
- TA MCCB Type have adjustable thermal and fixed magnetic overloads
- Thermal overload adjusts to 1 x In, 0.9 x In and 0.8 x In
- Ultimate breaking capacity available is 85kA at 415VAC Icu
- Fully rated for use at 55°C
- Rated insulation voltage is 800V AC
- 3-Pole Product dimensions are 257 x 150 x 149 (H x W x D mm)
- 4-Pole Product dimensions are 257 x 200 x 149 (H x W x D mm)



Current Rating (A)	TF MCCB Type 85kA Fixed Thermal & Fixed Magnetic		TA MCCB Type 85kA Adjustable Thermal & Fixed Magnetic	
	3-Pole Product Code	4-Pole Product Code	3-Pole Product Code	4-Pole Product Code
	225	YS5K3P225TF5	YS5K4P225TF5	YS5K3P225TA5
250	YS5K3P250TF5	YS5K4P250TF5	YS5K3P250TA5	YS5K4P250TA5
280	YS5K3P280TF5	YS5K4P280TF5	YS5K3P280TA5	YS5K4P280TA5
300	YS5K3P300TF5	YS5K4P300TF5	YS5K3P300TA5	YS5K4P300TA5
315	YS5K3P315TF5	YS5K4P315TF5	YS5K3P315TA5	YS5K4P315TA5
350	YS5K3P350TF5	YS5K4P350TF5	YS5K3P350TA5	YS5K4P350TA5
400	YS5K3P400TF5	YS5K4P400TF5	YS5K3P400TA5	YS5K4P400TA5

**Note:** For devices configured to 40°C, please exchange the "5" at the end of the product code to a "4"

## Loadline YS Series 5



## Loadline YS MCCB YS5 Frame 65kA Electronic

### Main features

- Exceeds the requirements of IEC / EN 60947-2
- E MCCB Type have adjustable long time, short time and instantaneous trip functions
- Ultimate breaking capacity is 65kA at 415VAC Icu
- Fully rated for use at 55°C
- Rated insulation voltage is 800V AC
- 3-Pole Product dimensions are 258 x 150 x 108 (H x W x D mm)
- 4-Pole Product dimensions are 258 x 200 x 108 (H x W x D mm)

E MCCB Type 65kA Electronic		
Current Rating (A)	3-Pole Product Code	4-Pole Product Code
300	YS5J3P300E5	YS5J4P300E5
315	YS5J3P315E5	YS5J4P315E5
350	YS5J3P350E5	YS5J4P350E5
400	YS5J3P400E5	YS5J4P400E5

**Note:** For devices configured to 40°C, please exchange the “5” at the end of the product code to a “4”

## Loadline YS MCCB YS6 Frame 65kA Thermal Magnetic

### Main features

- Exceeds the requirements of IEC / EN 60947-2
- TF MCCB Type have fixed thermal and fixed magnetic overloads
- TA MCCB Type have adjustable thermal and fixed magnetic overloads
- Thermal overload adjusts to 1 x In, 0.9 x In and 0.8 x In
- Ultimate breaking capacity available is 65kA at 415VAC Icu
- Fully rated for use at 55°C
- Rated insulation voltage is 800V AC
- 3-Pole Product dimensions are 280 x 210 x 160 (H x W x D mm)
- 4-Pole Product dimensions are 280 x 280 x 160 (H x W x D mm)

Current Rating (A)	TF MCCB Type 65kA Fixed Thermal & Fixed Magnetic		TA MCCB Type 65kA Adjustable Thermal & Fixed Magnetic	
	3-Pole Product Code	4-Pole Product Code	3-Pole Product Code	4-Pole Product Code
	400	YS6J3P400TF5	YS6J4P400TF5	YS6J3P400TA5
500	YS6J3P500TF5	YS6J4P500TF5	YS6J3P500TA5	YS6J4P500TA5
630	YS6J3P630TF5	YS6J4P630TF5	YS6J3P630TA5	YS6J4P630TA5
700	YS6J3P700TF5	YS6J4P700TF5	YS6J3P700TA5	YS6J4P700TA5
800	YS6J3P800TF5	YS6J4P800TF5	YS6J3P800TA5	YS6J4P800TA5



## Loadline YS Series 5

## Loadline YS MCCB YS6 Frame 85kA Thermal Magnetic

### Main features

- Exceeds the requirements of IEC / EN 60947-2
- TF MCCB Type have fixed thermal and fixed magnetic overloads
- TA MCCB Type have adjustable thermal and fixed magnetic overloads
- Thermal overload adjusts to 1 x In, 0.9 x In and 0.8 x In
- Ultimate breaking capacity available is 85kA at 415VAC Icu
- Fully rated for use at 55°C
- Rated insulation voltage is 800V AC
- 3-Pole Product dimensions are 280 x 210 x 160 (H x W x D mm)
- 4-Pole Product dimensions are 280 x 280 x 160 (H x W x D mm)

Current Rating (A)	TF MCCB Type 85kA Fixed Thermal & Fixed Magnetic		TA MCCB Type 85kA Adjustable Thermal & Fixed Magnetic	
	3-Pole Product Code	4-Pole Product Code	3-Pole Product Code	4-Pole Product Code
	400	YS6K3P400TF5	YS6K4P400TF5	YS6K3P400TA5
500	YS6K3P500TF5	YS6K4P500TF5	YS6K3P500TA5	YS6K4P500TA5
630	YS6K3P630TF5	YS6K4P630TF5	YS6K3P630TA5	YS6K4P630TA5
700	YS6K3P700TF5	YS6K4P700TF5	YS6K3P700TA5	YS6K4P700TA5
800	YS6K3P800TF5	YS6K4P800TF5	YS6K3P800TA5	YS6K4P800TA5



**Note:** For devices configured to 40°C, please exchange the "5" at the end of the product code to a "4"

## Loadline YS Series 5



## Loadline YS MCCB YS6 Frame 65kA Electronic

### Main features

- Exceeds the requirements of IEC / EN 60947-2
- E MCCB Type have adjustable long time, short time and instantaneous trip functions
- Ultimate breaking capacity is 65kA at 415VAC Icu
- Fully rated for use at 55°C
- Rated insulation voltage is 800V AC
- 3-Pole Product dimensions are 280 x 210 x 112 (H x W x D mm)
- 4-Pole Product dimensions are 280 x 280 x 112 (H x W x D mm)

E MCCB Type 65kA Electronic		
Current Rating (A)	3-Pole Product Code	4-Pole Product Code
400	YS6J3P400E5	YS6J4P400E5
500	YS6J3P500E5	YS6J4P500E5
630	YS6J3P630E5	YS6J4P630E5
700	YS6J3P700E5	YS6J4P700E5
800	YS6J3P800E5	YS6J4P800E5

**Note:** For devices configured to 40°C, please exchange the “5” at the end of the product code to a “4”

## Loadline YS MCCB Accessories

## Loadline YS Series 5

Description	YS2 160A Frame Product Code	YS3 250A Frame Product Code	YS5 400A Frame Product Code	YS6 800A Frame Product Code
1 C/O Auxiliary Contact	YS2AUX5	YS3AUX5	YS5AUX5	YS6AUX5
1 C/O Alarm Contact	YS2AL5	YS3AL5	YS5AL5	YS6AL6
1 C/O Auxiliary & 1 C/O Alarm Combined Contact	YS2AUXAL5	YS3AUXAL5	YS5AUXAL5	YS6AUXAL5
Shunt Trip 240V AC	YS2ST240VAC5	YS3ST240VAC5	YS5ST240VAC5	YS6ST240VAC5
Shunt Trip 24V DC	YS2ST24VDC5	YS3ST24VDC5	YS5ST24VDC5	YS6ST24VDC5
Shunt Trip 48V DC	YS2ST48VDC5	YS3ST48VDC5	YS5ST48VDC5	YS6ST48VDC5
Under-voltage Release 230V AC	YS2UVR240AC5	YS3UVR240AC5	YS5UVR240AC5	YS6UVR240AC5
Under-voltage Release 440V AC	YS2UVR440AC5	YS3UVR440AC5	YS5UVR440AC5	YS6UVR440AC5
Extended Rotary Handle	YS2RH5	YS3RH5	YS5RH5	YS6RH5
3-Pole Terminal Cover	YS2TCS3P5	YS3TCS3P5	YS5TCS3P5	-
3-Pole Cable Clamp Set	YS2TCS3P5	YS3TCS3P5	YS5TCS3P5	-
4-Pole Cable Clamp Set	YS2TCS4P5	YS3TCS4P5	YS5TCS4P5	-
3-Pole Extended Terminals (Spreader)	YS2XT3P5	YS3XT3P5	YS5XT3P5	YS6XT3P5
4-Pole Extended Terminals (Spreader)	YS2XT4P5	YS3XT4P5	YS5XT4P5	YS6XT4P5
3-Pole Plug In Base IP20	YS2PB3P5	YS3PB3P5	YS5PB3P5	YS6PB3P5
4-Pole Plug In Base IP20	YS2PB4P5	YS3PB4P5	YS5PB4P5	YS6PB4P5
Motor Operator 240V AC	YS2MA240VAC5	YS3MA240VAC5	YS5MA240VAC5	YS6MA240VAC5
Motor Operator 24V DC	YS2MA24VDC5	YS3MA24VDC5	YS5MA24VDC5	YS6MA24VDC5

### Notes:

- Auxiliary Contacts are used for remote On / Off status indications. Each unit contains one changeover contact.
- Alarm Switch is a remote signalling contact to indicate the Trip status of the MCCB.
- Shunt Trips allows an MCCB to be tripped remotely on the application of the rated coil voltage across its terminals. Shunt Trips have a continuously rated coil. The voltage range for activation is 80% to 110% of rated coil voltage.
- An under-voltage release trips the breaker automatically if the applied voltage to its terminals drops between 35% to 70% of its voltage rating. The under-voltage trip prevents the circuit breaker from being closed unless at least 85% of its rated voltage is applied across its terminals.
- Plug- in mounting systems allow for quick replacement of MCCB devices without disconnections of cables/tap off link terminations. Plug-In Mounting bases are supplied with rear connecting terminals as standard.

# Loadline YS Series 5

# Technical Data TF MCCB Type Fixed Thermal & Fixed Magnetic

Frame	YS2		YS3		YS5		YS6		
Frame Size	160A		250A		400A		800A		
<b>General Parameters</b>									
Nominal Current Ratings (A)	16, 20, 25, 32, 40, 50, 63, 70, 75, 80, 100, 125, 140, 150 & 160		<b>1-Pole:</b> 10, 16, 20, 25, 32, 40, 50, 63, 80, 90, 100 & 125 <b>3-Pole &amp; 4-Pole:</b> 100, 125, 140, 150, 160, 175, 180, 200, 225 & 250		225, 250, 280, 300, 315, 350 & 400		400, 500, 630, 700 & 800		
Number of Poles	3-Pole	4-Pole	1-Pole	3-Pole	4-Pole	3-Pole	4-Pole	3-Pole	4-Pole
Compliance	IEC / EN 60947-2		IEC / EN 60947-2		IEC / EN 60947-2		IEC / EN 60947-2		
Ambient Temperature (°C)	50		50		50		50		
Operating Ambient Temperature (°C)	-5°C to +55°C		-5°C to +55°C		-5°C to +55°C		-5°C to +55°C		
Pollution Degree	3		3		3		3		
CE Marking	Yes		Yes		Yes		Yes		
<b>Electrical Characteristics</b>									
Rated Operational Voltage (Ue)	380 / 400 / 415V AC		380 / 400 / 415V AC		380 / 400 / 415V AC		380 / 400 / 415V AC		
Rated Insulation Voltage (Ui)	800V AC		800V AC		800V AC		800V AC		
Rated Impulse Withstand Voltage (Uimp)	8kV AC		8kV AC		8kV AC		8kV AC		
Rated Frequency	50 / 60 Hz		50 / 60 Hz		50 / 60 Hz		50 / 60 Hz		
Ultimate breaking capacity 240/415V (Icu) (kA rms)	36 & 50kA	36 & 50kA	25kA	36 & 50kA	36 & 50kA	65 & 85kA	65 & 85kA	65 & 85kA	65 & 85kA
Service breaking capacity 240/415V (Ics) (kA rms)	27 & 36kA	27 & 36kA	18kA	27 & 36kA	27 & 36kA	50 & 60kA	50 & 60kA	50 & 60kA	50 & 60kA
<b>Protection</b>									
Thermal Trip	Fixed		Fixed		Fixed		Fixed		
Magnetic Trip	Fixed		Fixed		Fixed		Fixed		
Utilisation Category	A		A		A		A		
Phase Barrier	●		●		●		●		
IP Rating	IP20		IP20		IP20		IP20		
<b>Installation &amp; Connection</b>									
Fixed Front Connection	●		● ● ●		●		●		
Fixed Rear Connection	●		○ ● ●		●		●		
Plug In Rear Connection	●		○ ● ●		●		●		
Plug In Front Connection	○		○ ○ ○		○		○		
Drawout Version Rear Connection	○		○ ○ ○		● ●		● ○		
Spreader Connections	●		○ ● ●		●		●		
Line-Load Marking	●		●		●		●		
<b>Operation</b>									
Mechanical Operations	11,000		10,000		4,000		2,500		
Electrical Operations	6,000		3,000		2,000		1,000		
<b>Dimensions</b>									
Height (mm)	150		165		257		280		
1-Pole Width (mm)	-		35		-		-		
3-Pole Width (mm)	90		105		150		210		
4-Pole Width (mm)	120		140		200		280		
Depth (mm)	90 for 36kA and 108 for 50kA		109 for 36kA and 128 for 50kA		149		160		
<b>Accessories</b>									
Terminal Cover	●		●		●		○		
Cage Terminal Block	●		●		●		○		
Auxiliary Contact	●		● ● ●		●		●		
Shunt trip 100V-450V AC	●		○ ● ●		●		●		
Shunt trip 12V-240V DC	●		○ ● ●		●		●		
Under-voltage release 100V-450V AC	●		○ ● ●		●		●		
Under-voltage release 12V-240V DC	●		○ ● ●		●		●		
Alarm Contact	●		○ ● ●		●		●		
Mechanical Interlock	●		○ ● ●		●		●		
Motor Operator 240V-400V AC	●		○ ● ●		●		●		
Motor Operator 24V-100V DC	●		○ ● ●		●		●		
Panel mount rotary handle	●		○ ● ●		●		●		

● Available ○ Not Available

# Technical Data

## TA MCCB Type Adjustable Thermal & Fixed Magnetic

# Loadline YS Series 5

Frame	YS2		YS3		YS5		YS6	
Frame Size	160A		250A		400A		800A	
<b>General Parameters</b>								
Nominal Current Ratings (A)	16, 20, 25, 32, 40, 50, 63, 70, 75, 80, 100, 125, 140, 150 & 160		100, 125, 140, 150, 160, 175, 180, 200, 225 & 250		225, 250, 280, 300, 315, 350 & 400		400, 500, 630, 700 & 800	
Number of Poles	3-Pole	4-Pole	3-Pole	4-Pole	3-Pole	4-Pole	3-Pole	4-Pole
Compliance	IEC / EN 60947-2		IEC / EN 60947-2		IEC / EN 60947-2		IEC / EN 60947-2	
Ambient Temperature (°C)	50		50		50		50	
Operating Ambient Temperature (°C)	-5°C to +55°C		-5°C to +55°C		-5°C to +55°C		-5°C to +55°C	
Pollution Degree	3		3		3		3	
CE Marking	Yes		Yes		Yes		Yes	
<b>Electrical Characteristics</b>								
Rated Operational Voltage (Ue)	380 / 400 / 415V AC		380 / 400 / 415V AC		380 / 400 / 415V AC		380 / 400 / 415V AC	
Rated Insulation Voltage (Ui)	800V AC		800V AC		800V AC		800V AC	
Rated Impulse Withstand Voltage (Uimp)	8kV AC		8kV AC		8kV AC		8kV AC	
Rated Frequency	50 / 60 Hz		50 / 60 Hz		50 / 60 Hz		50 / 60 Hz	
Ultimate breaking capacity 240/415V (Icu) (kA rms)	36 & 50kA	36 & 50kA	36 & 50kA	36 & 50kA	65 & 85kA	65 & 85kA	65 & 85kA	65 & 85kA
Service breaking capacity 240/415V (Ics) (kA rms)	27 & 36kA	27 & 36kA	27 & 36kA	27 & 36kA	50 & 60kA	50 & 60kA	50 & 60kA	50 & 60kA
<b>Protection</b>								
Thermal Trip	Adjustable		Adjustable		Adjustable		Adjustable	
Magnetic Trip	Fixed		Fixed		Fixed		Fixed	
Utilisation Category	A		A		A		A	
Phase Barrier	●		●		●		●	
IP Rating	IP20		IP20		IP20		IP20	
<b>Installation &amp; Connection</b>								
Fixed Front Connection	●		●		●		●	
Fixed Rear Connection	●		●		●		●	
Plug In Rear Connection	●		●		●		●	
Plug In Front Connection	○		○		○		○	
Drawout Version Rear Connection	○		○		●		○	
Spreader Connections	●		●		●		●	
Line-Load Marking	●		●		●		●	
<b>Operation</b>								
Mechanical Operations	11,000		10,000		4,000		2,500	
Electrical Operations	6,000		3,000		2,000		1,000	
<b>Dimensions</b>								
Height (mm)	150		165		257		280	
1-Pole Width (mm)	-		35		-		-	
3-Pole Width (mm)	90		105		150		210	
4-Pole Width (mm)	120		140		200		280	
Depth (mm)	90 for 36kA and 108 for 50kA		109 for 36kA and 128 for 50kA		149		160	
<b>Accessories</b>								
Terminal Cover	●		●		●		○	
Cage Terminal Block	●		●		●		○	
Auxiliary Contact	●		●		●		●	
Shunt trip 100V-450V AC	●		●		●		●	
Shunt trip 12V-240V DC	●		●		●		●	
Under-voltage release 100V-450V AC	●		●		●		●	
Under-voltage release 12V-240V DC	●		●		●		●	
Alarm Contact	●		●		●		●	
Mechanical Interlock	●		●		●		●	
Motor Operator 240V-400V AC	●		●		●		●	
Motor Operator 24V-100V DC	●		●		●		●	
Panel mount rotary handle	●		●		●		●	

● Available    ○ Not Available

# Loadline YS Series 5

# Technical Data E MCCB Type Electronic

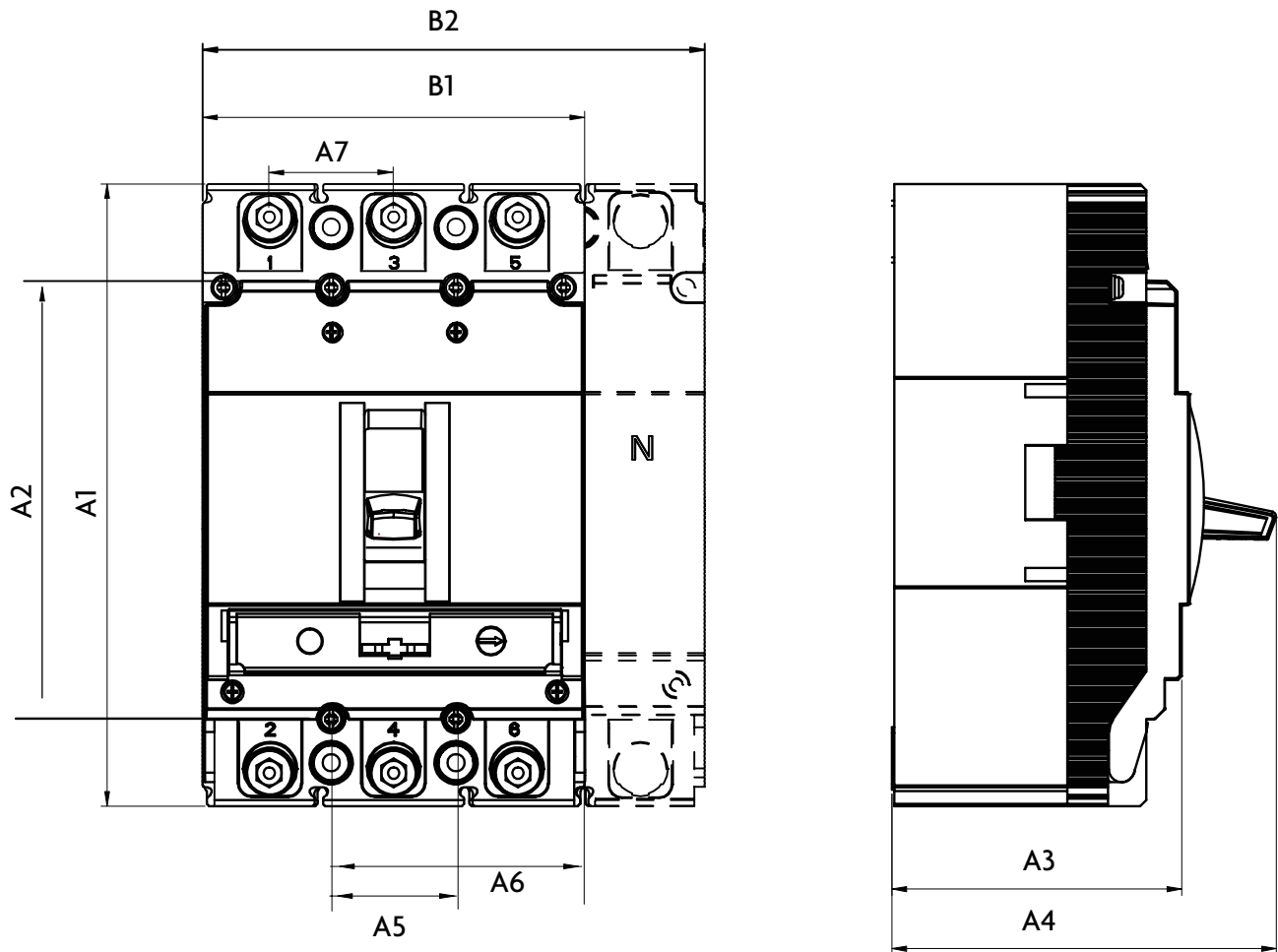
Frame	YS2		YS3		YS5		YS6	
Frame Size	125A		250A		400A		800A	
<b>General Parameters</b>								
Nominal Current Ratings (A)	16, 20, 25, 32, 40, 50, 63, 70, 75, 80, 100 & 125		125, 140, 150, 160, 175, 180, 200, 225 & 250		300, 315, 350 & 400		400, 500, 630, 700 & 800	
Number of Poles	3-Pole	4-Pole	3-Pole	4-Pole	3-Pole	4-Pole	3-Pole	4-Pole
Compliance	IEC / EN 60947-2		IEC / EN 60947-2		IEC / EN 60947-2		IEC / EN 60947-2	
Ambient Temperature (°C)	50		50		50		50	
Operating Ambient Temperature (°C)	-5°C to +55°C		-5°C to +55°C		-5°C to +55°C		-5°C to +55°C	
Pollution Degree	3		3		3		3	
CE Marking	Yes		Yes		Yes		Yes	
<b>Electrical Characteristics</b>								
Rated Operational Voltage (Ue)	415V AC		415V AC		415V AC		415V AC	
Rated Insulation Voltage (Ui)	800V AC		800V AC		800V AC		800V AC	
Rated Impulse Withstand Voltage (Uimp)	8kV AC		8kV AC		8kV AC		8kV AC	
Rated Frequency	50 / 60 Hz		50 / 60 Hz		50 / 60 Hz		50 / 60 Hz	
Ultimate breaking capacity 240/415V (Icu) (kA rms)	36kA	36kA	36kA	36kA	50kA	50kA	65kA	65kA
Service breaking capacity 240/415V (Ics) (kA rms)	27kA	27kA	27kA	27kA	36kA	36kA	42kA	42kA
<b>Protection</b>								
Electronic LSI Microprocessor	Yes		Yes		Yes		Yes	
Long time overload: 0.63 to 1 x In								
Short time delay: 2 to 12 x In								
Instantaneous trip: 4 to 14 x In								
Utilisation Category	B		B		B		B	
Phase Barrier	●		●		●		●	
IP Rating	IP20		IP20		IP20		IP20	
<b>Installation &amp; Connection</b>								
Fixed Front Connection	●		●		●		●	
Fixed Rear Connection	●		●		●		●	
Plug In Rear Connection	●		●		●		●	
Plug In Front Connection	○		○		○		○	
Drawout Version Rear Connection	○		○		●		○	
Spreader Connections	●		●		●		●	
Line-Load Marking	●		●		●		●	
<b>Operation</b>								
Mechanical Operations	8,500		7,000		4,000		2,500	
Electrical Operations	1,500		1,000		1,000		1,000	
<b>Dimensions</b>								
Height (mm)	150		165		257		280	
3-Pole Width (mm)	90		105		150		210	
4-Pole Width (mm)	120		140		200		280	
Depth (mm)	90		90		149		112	
<b>Accessories</b>								
Terminal Cover	●		●		●		○	
Cage Terminal Block	●		●		●		○	
Auxiliary Contact	●		●		●		●	
Shunt trip 100V-450V AC	●		●		●		●	
Shunt trip 12V-240V DC	●		●		●		●	
Under-voltage release 100V-450V AC	●		●		●		●	
Under-voltage release 12V-240V DC	●		●		●		●	
Alarm Contact	●		●		●		●	
Mechanical Interlock	●		●		●		●	
Motor Operator 240V-400V AC	●		●		●		●	
Motor Operator 24V-100V DC	●		●		●		●	
Panel mount rotary handle	●		●		●		●	

● Available    ○ Not Available



# MCCB Dimensions

## Loadline YS Series 5

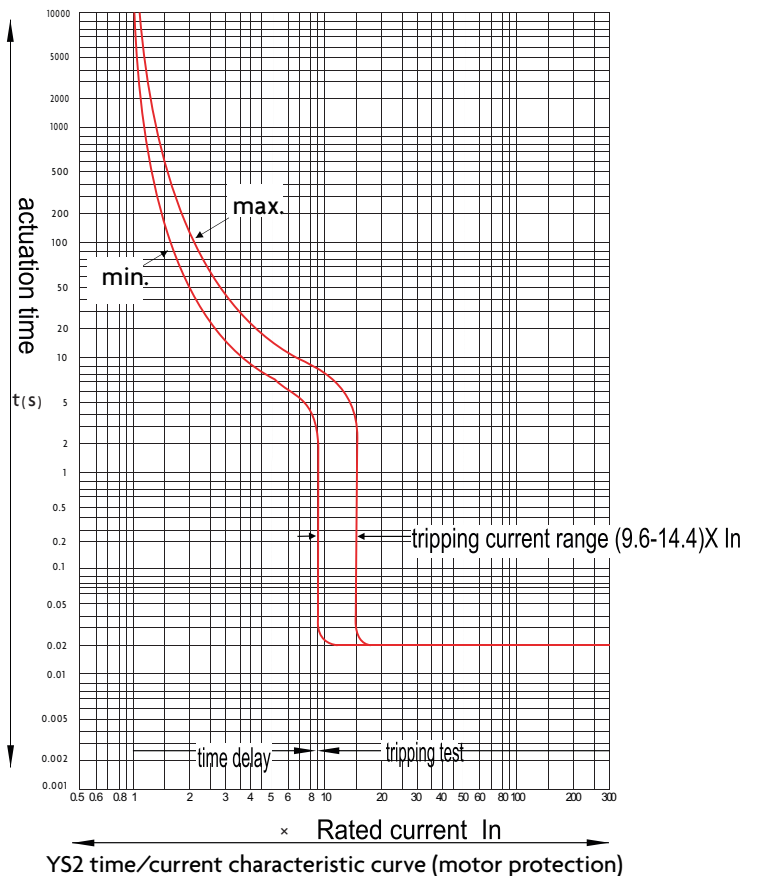
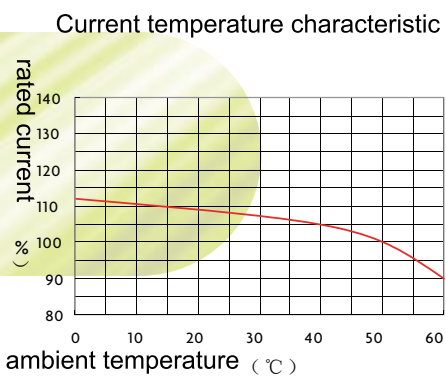
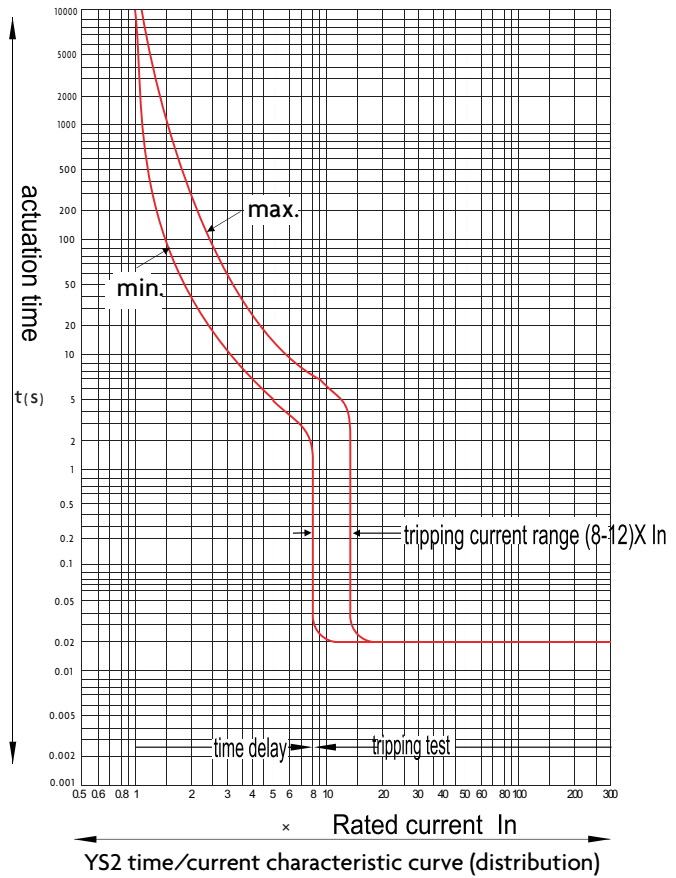
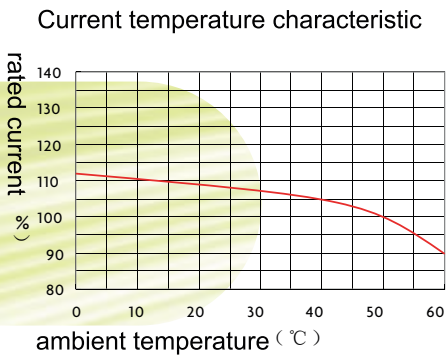


Frame Size / Dimension (mm)	A1	A2	A3	A4	A5	A6	A7	B1	B2
YS2 36kA	150	129	72	90	30	60	30	90	120
YS2 50kA	150	129	90	108	30	60	30	90	120
YS3 25kA (1-Pole)	155	126	-	88	-	-	-	35	-
YS3 36kA (* Electronic depth)	165	126	91	109 (*90)	35	70	35	105	140
YS3 50kA	165	126	109	128	35	70	35	105	140
YS5 50kA	257	194	114	149	44	74	48	150	200
YS5 65kA (* Electronic depth)	257	194	114	149 (*108)	44	74	48	150	200
YS5 85kA	257	194	114	149	44	74	48	150	200
YS6 65kA (* Electronic Depth)	280	243	120	160 (*112)	70	140	70	210	280
YS6 85kA	280	243	125	160	70	140	70	210	280

# Loadline YS Series 5

# MCCB Characteristics YS2 Frame Thermal Magnetic

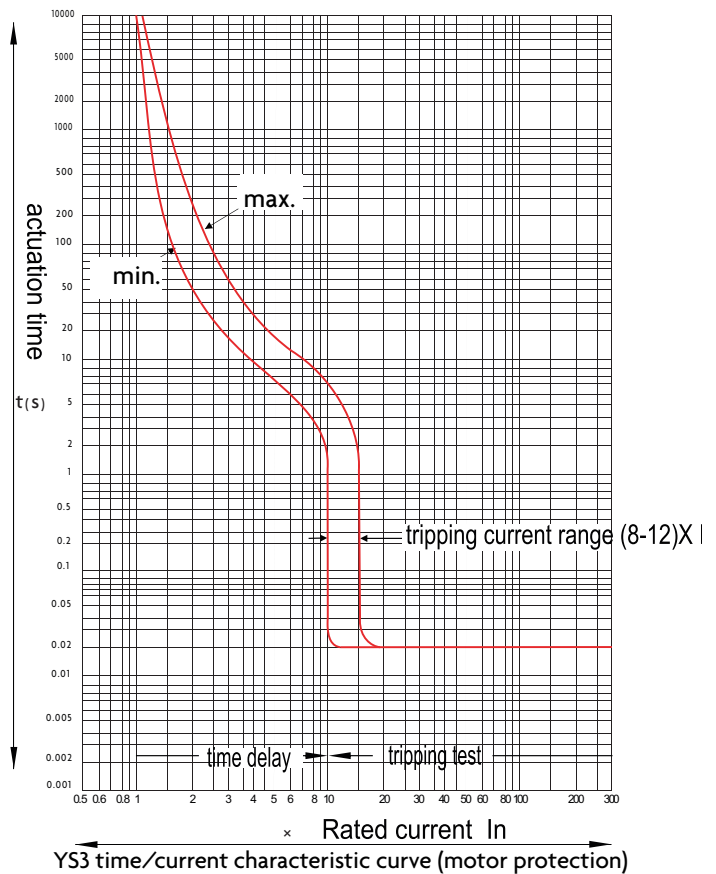
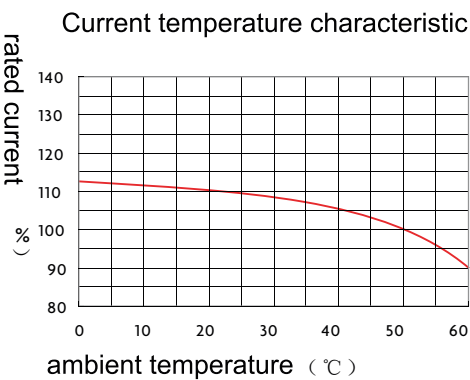
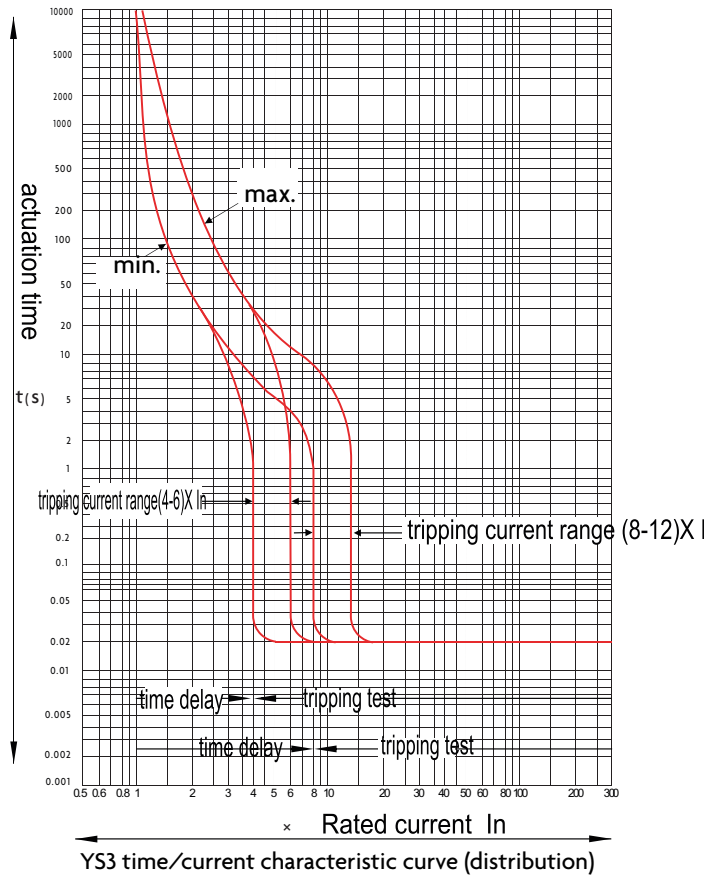
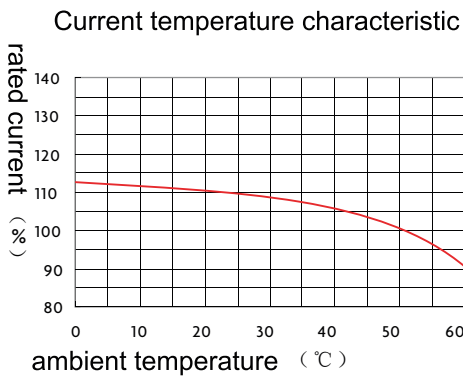
Over current characteristic curve



# MCCB Characteristics

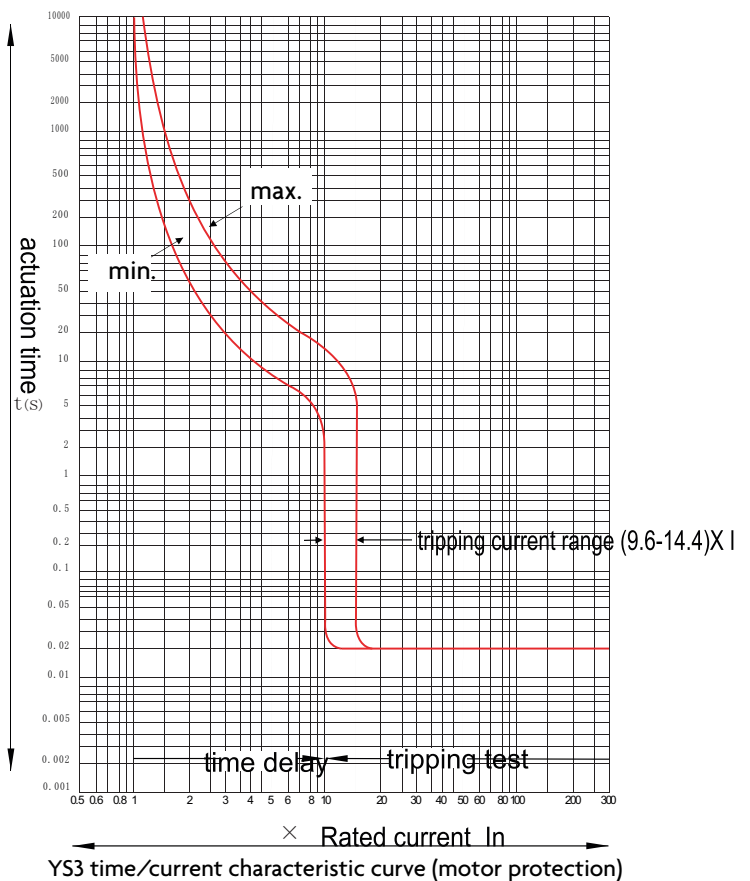
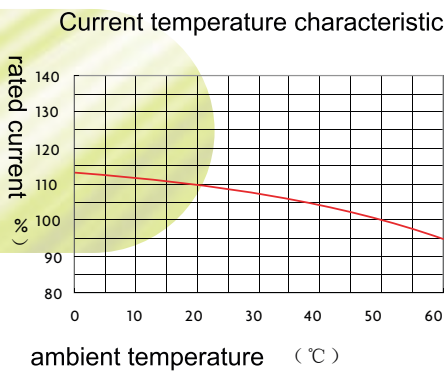
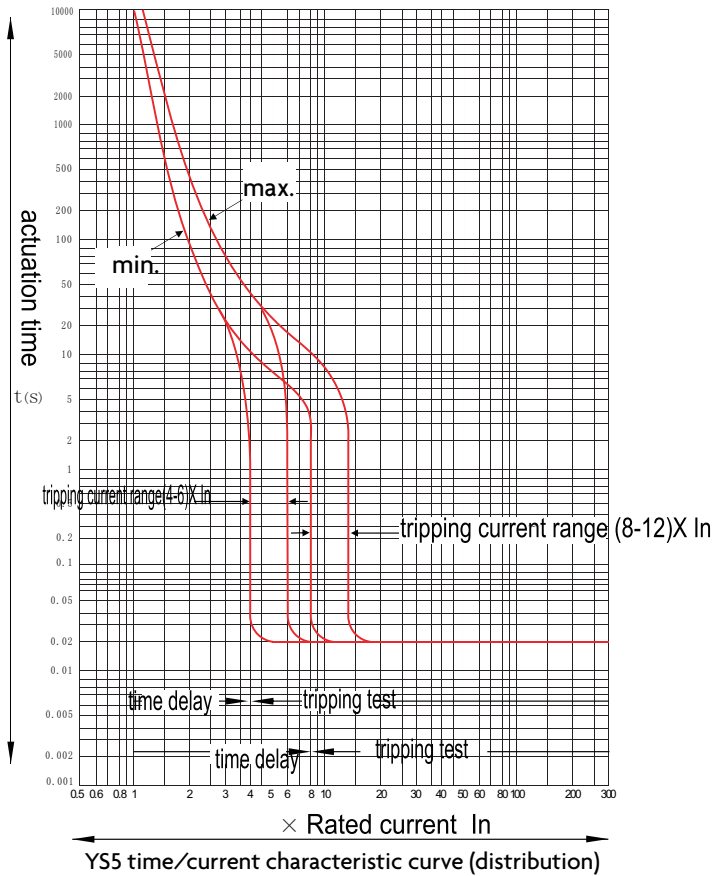
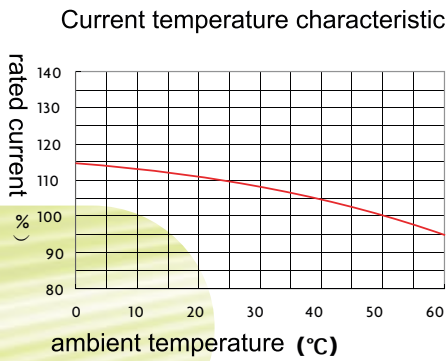
## YS3 Frame Thermal Magnetic

# Loadline YS Series 5



# Loadline YS Series 5

# MCCB Characteristics YS5 Frame Thermal Magnetic

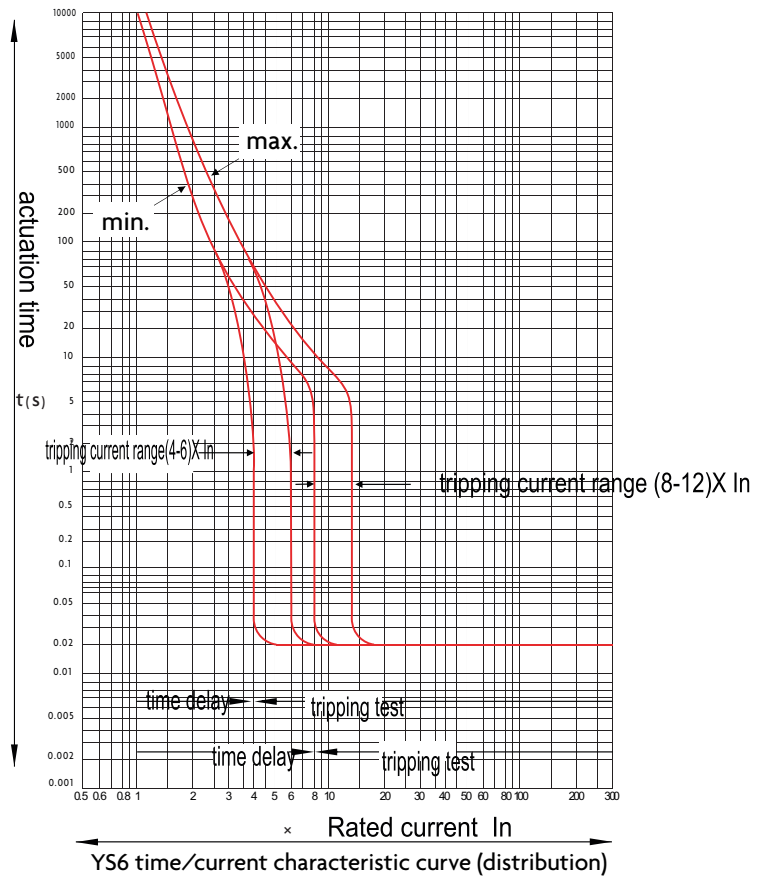
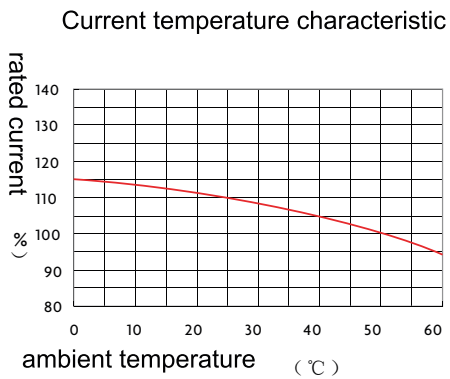


# MCCB Characteristics

## YS6 Frame Thermal Magnetic

# Loadline YS

## Series 5



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