

QF(26)HR - Series Miniature Circuit Breakers



1 Pole
Dual (DIN & mini rail)
mount

2 Pole
Dual (DIN & mini rail)
mount

3 Pole
Dual (DIN & mini rail)
mount

3 Pole + N
Dual (DIN & mini rail)
mount

Features

- AC circuit breaker
- Hydraulic-magnetic technology
- 100% rated current capability, independent of ambient temperature
- One, two, three pole, 1+N and 3+N (VDE)
- VC 8036 (SANS 556-1) and CE compliant
- VDE and EAC approved
- Ratings 60 A to 100 A (UL 489)
- Ratings 70 A to 125 A (IEC 60947-2)
- Available in various currents and time delays
- Precision tripping characteristics
- Can be switched immediately after tripping
- Dual (DIN & mini rail) mount, 57 mm front escutcheon (Black)
- Suitable to use for electrical isolation

Applications

- AC branch circuit protection (DIN / EN 60947-2)
- Switch disconnecter (DIN / EN 60947-3, UL 508)
- Telecom / datacom equipment
- Lighting control
- UPS equipment
- Mobile power generation equipment
- Railway signalling equipment
- Residential equipment
- Industrial equipment

Optional Accessories

- Handle lock - SAAP001
- Surface mounting clips - 2096001
- Escutcheon blank - SFEB000
- Safety blank - SAEB000



VC 8036 (SANS 556-1)
(SANS IEC 60947-2)



Hydraulic-Magnetic Circuit Breakers 100% rated, unaffected by ambient temperature

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Technical Data

Product Type	Circuit Breaker				
Approvals	DIN / EN 60947-2, EAC, CE, UKCA, VC 8036 (SANS 556-1)				
Number of Poles	1	2 (1+N)	2	3	4 (3+N)
Operating Voltages	240 Vac		415 Vac		
Minimum Current Rating	70 A				
Maximum Current Rating	125 A				
Ultimate S/C Breaking Capacity (Icu)	6 kA (IEC), 5 kA (VC 8036)				

Product Type	Circuit Breaker		
Approvals	GB/T14048.2		
Number of Poles	1	1 + N	2, 3, 3 + N, 4
Operating Voltages	240 Vac		415 Vac
Minimum Current Rating	70 A		
Maximum Current Rating	125 A		
Ultimate S/C Breaking Capacity (Icu)	6 kA		

Product Type	Circuit Breaker	
Approvals	UL 489	
Number of Poles	1	2
Operating Voltages	120 Vac	120 / 240 Vac
Minimum Current Rating	60 A	
Maximum Current Rating	100 A	
Ampere Interrupting Capacity (AIC)	10 kA	

Product Type	Switch Disconnecter				
Approvals	VC 8036 (SANS 556-1), DIN / EN 60947-3, UL 508, GB/T14048.3				
Number of Poles	1	2	3	4	4 (3+N)
Operating Voltages	240 Vac	415 Vac			
Current Rating	125 A				
Short-time Withstand	6 kA / 50 ms				

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Technical Data

Product Type	QF(26)HR
Ambient Operating Temperature	-40 °C to +85 °C
Mounting Options	Dual (DIN & mini rail) mount, surface mount
Time Delay Curves	1, 2
Endurance	10000 operations - 1500 with current, 8500 without current (IEC 60947-2 Clause 7.2.4.2)*
Dielectric Strength	1000 - 2000 Vac for one minute (IEC 60947-2 Clause 8.3.3.3)*
Rated Impulse Withstand Voltage	6 kV (IEC 60947-2 Clause 8.3.3.2)
Weight	200 g per pole (unpacked)
Altitude	Certification tests done at altitude ≈ 2000 metres. Will operate at higher altitudes.
Shock	50 G to MIL-STD-202G, test method 213B, test condition 1
Vibration	10 G to MIL-STD-202G test method 204D, test condition A
Flammability	I3 - Ignition does not persist at 850 °C after glow wire is withdrawn with an oxygen index of ≥ 28
Toxicity	F1 - Smoke index of ≤ 20 which determines the fume class
Pollution Degree	PD2 - Normally only non-conductive pollution occurs. Temporary conductivity caused by condensation is to be expected.

* Refer to standard for details.

Circuit Breaker	Wire Size (IEC)	Wire Gauge (UL)	Torque (IEC)	Torque (UL)	Comments
Main Terminals	1 mm ² - 50 mm ²	6 – 1 AWG	4 N.m	35 lbf.in	Pz #2 Combi head

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Long Code

Example Code: QF---3(26)-DM-2-125A-HR---

Group	1	2	3	4	5	6	7	8	9	10	11	12	13
Requirement	QF Frame	Switch / neutral	N/A	No of poles	Module width	Dual mount	Medium delay curve	Current rating	Mechanism Type	Shunt trip	Future use	Future use	Customer specific
Long Code	QF	-	-	3	(26)	DM	2	125A	HR	-	-	-	-

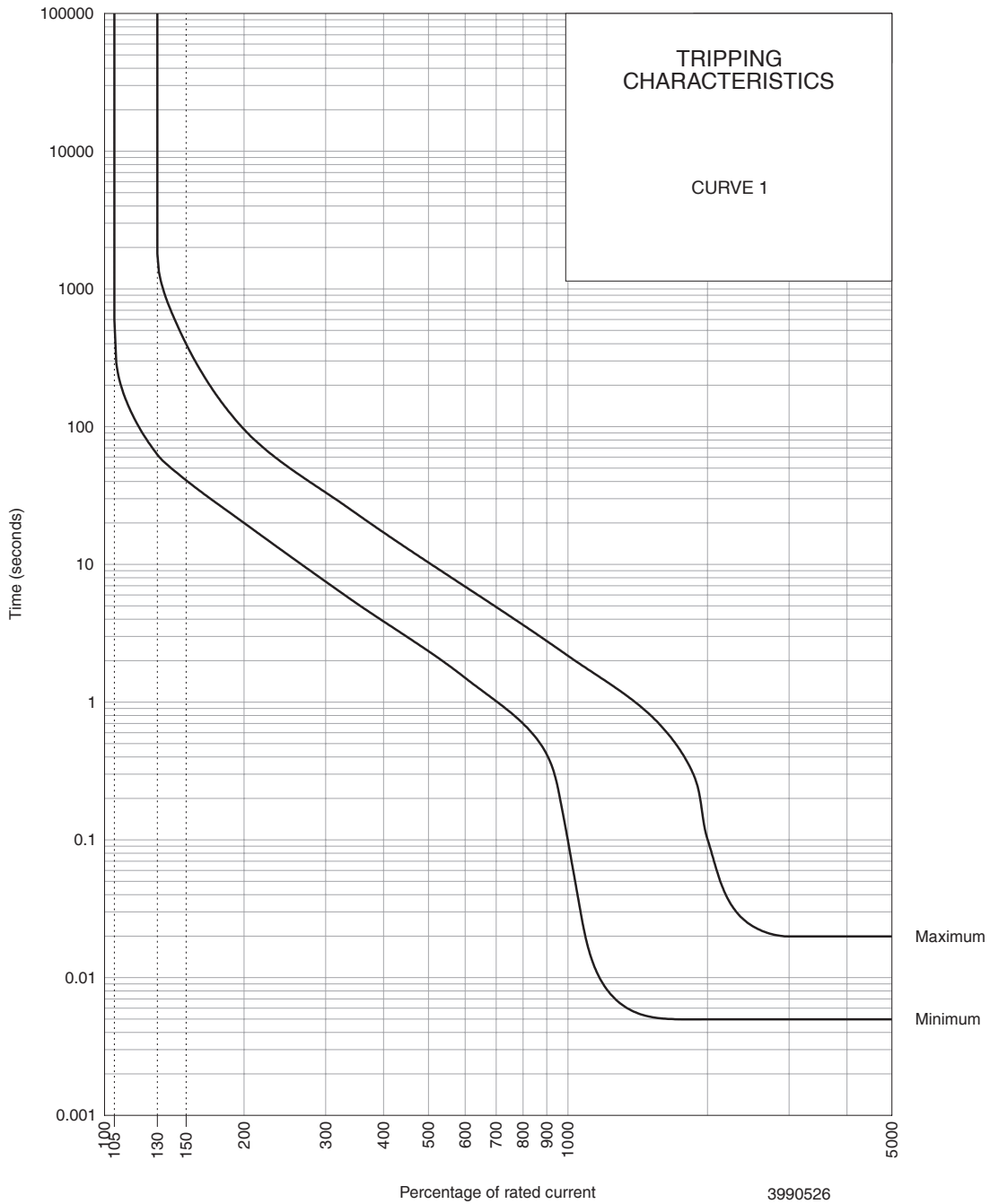
Ordering Information

Group	Code	Description	Comments
Group 1: Frame Type	QF	Miniature circuit breaker	
Group 2: Switch/Neutral	-	Not applicable	
	N	Neutral	Green handle
	S+N	Switch plus Neutral	
Group 3: Auxiliary	-	Not applicable	
Group 4: No. of Poles	1	Single pole	
	2	Double pole	2 pole or 1+N
	3	Triple pole	
	4	Four pole	4 pole or 3+N only
Group 5: Module Width	(26)	26 mm module width	
Group 6: Mounting	DM	Dual (DIN & mini rail) mount	Dual mount supplied in black only - 57 mm front escutcheon
Group 7: Time Delays	1	Long time delay, high instantaneous trip	Instantaneous Trip Point (x In) 10 – 20 Comments Orange handle
	2	Medium time delay	5 – 10 White handle
	-	Not applicable/ switch disconnecter	
Group 8: Current Ratings		60, 70, 80, 90, 100, 125 A	
Group 9: Type Mechanism	HR	SF Mechanism, High rating	
Group 10: Shunt Trip	-	Not applicable	
Group 11: Special Requirement	-	Not applicable	For future use (-)
	UL	UL Approved	
Group 12: Special Termination	-	Not applicable	For future use (-)
Group 13: Customer Specific	-	Not applicable	For future use (-)

For options not listed, please contact CBI

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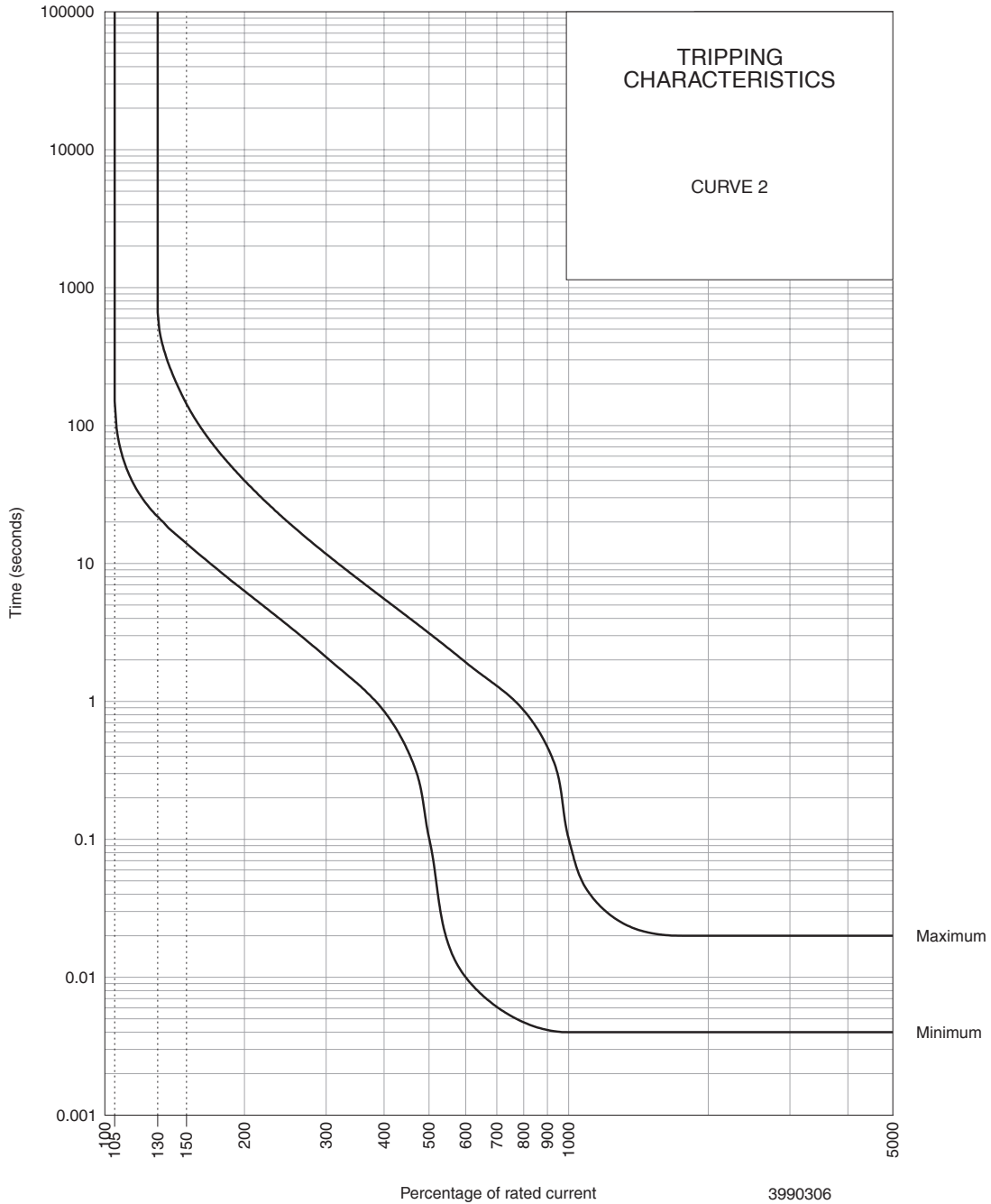
Time Delay Curve



PERCENTAGE OF RATED CURRENT	105%	130%	145%	150%	200%	300%	400%	500%	600%	700%	800%	900%	1000%	2000%
MINIMUM TRIP TIME IN SECONDS	NO TRIP	63	45	41	20	7.5	3.8	2.3	1.5	1.01	0.7	0.42	0.1	0.005
MAXIMUM TRIP TIME IN SECONDS	NO TRIP	1800	503	400	96	34	17	10.3	6.8	4.9	3.6	2.8	2.2	0.1

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Time Delay Curve

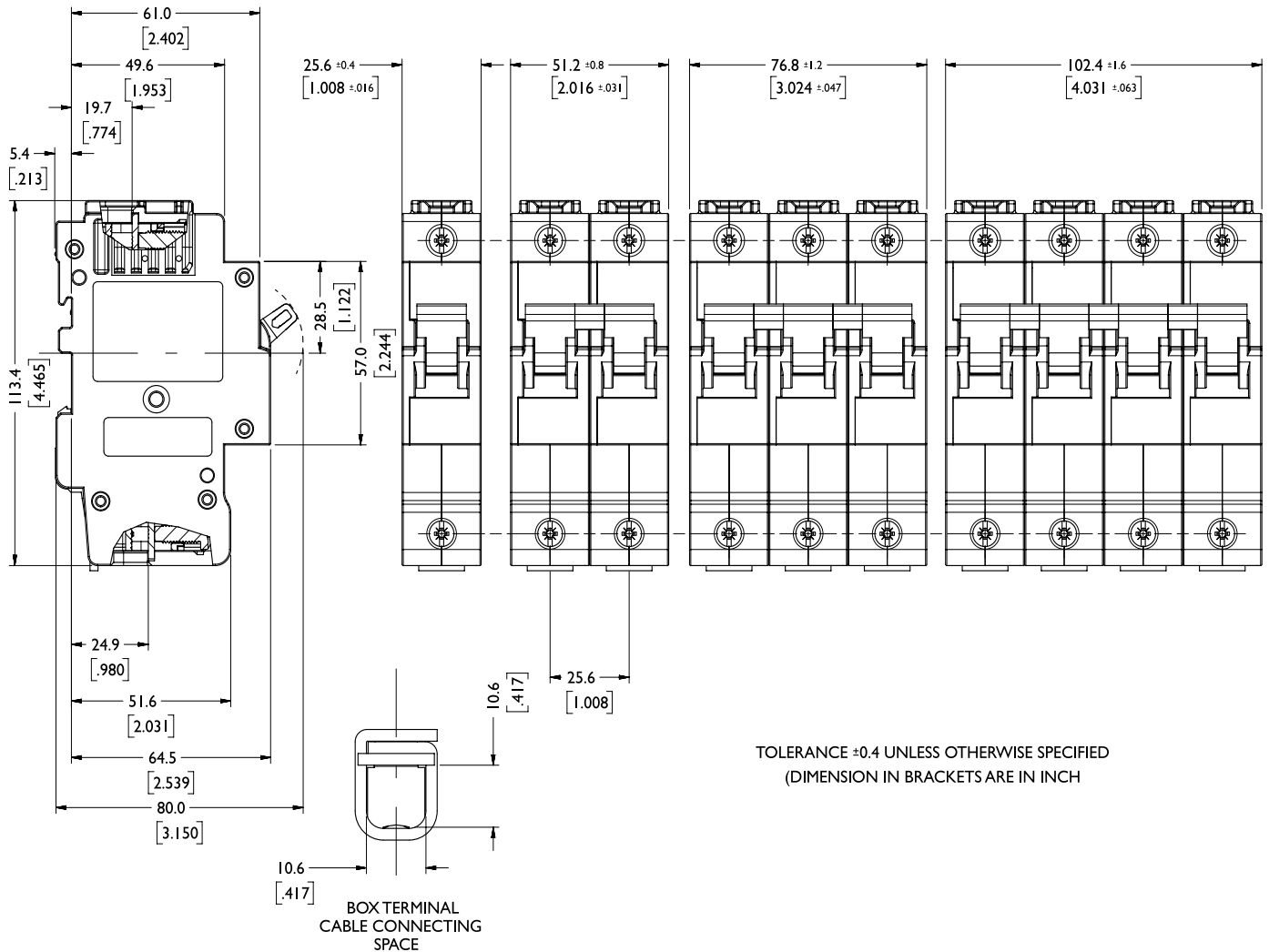


PERCENTAGE OF RATED CURRENT	105%	130%	145%	150%	200%	300%	400%	500%	600%	700%	800%	900%	1000%	2000%
MINIMUM TRIP TIME IN SECONDS	NO TRIP	22	15.4	14	6.3	2.1	0.85	0.1	0.001	0.006	0.005	0.041	0.004	0.004
MAXIMUM TRIP TIME IN SECONDS	NO TRIP	660	180	144	40	12	5.5	3	1.92	1.3	0.86	0.47	0.1	0.02

* The published time delay curves are generated at 30°C ambient temperature with the circuit breaker mounted in the up-right position. The “must hold”, “must trip” and “instantaneous trip” current values are not affected by temperature, although delay time for the other operating current values may have to be adjusted using the temperature compensation curve which is available on request.

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Outline Dimensions: Dual (DIN & mini rail) mount



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