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## 3SQ1, direct-on-line (DOL) starters

Independent power supply with build-in power source, directly draws power from the incoming end to avoid the risk of protection function failure caused by external power failure.

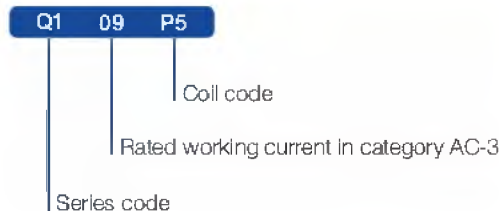
- Overload protection
- Short circuit protection
- Isolation
- Controlling
- Used in residential building, non-residential building, industry, energy and infrastructure



## Applications And Functions

- Controlling the direct start and halt of the electromotor
- Protecting the motor from overload and phase failure
- Used in remote making and breaking circuit and frequently starting and controlling motor


## Instruction of type code



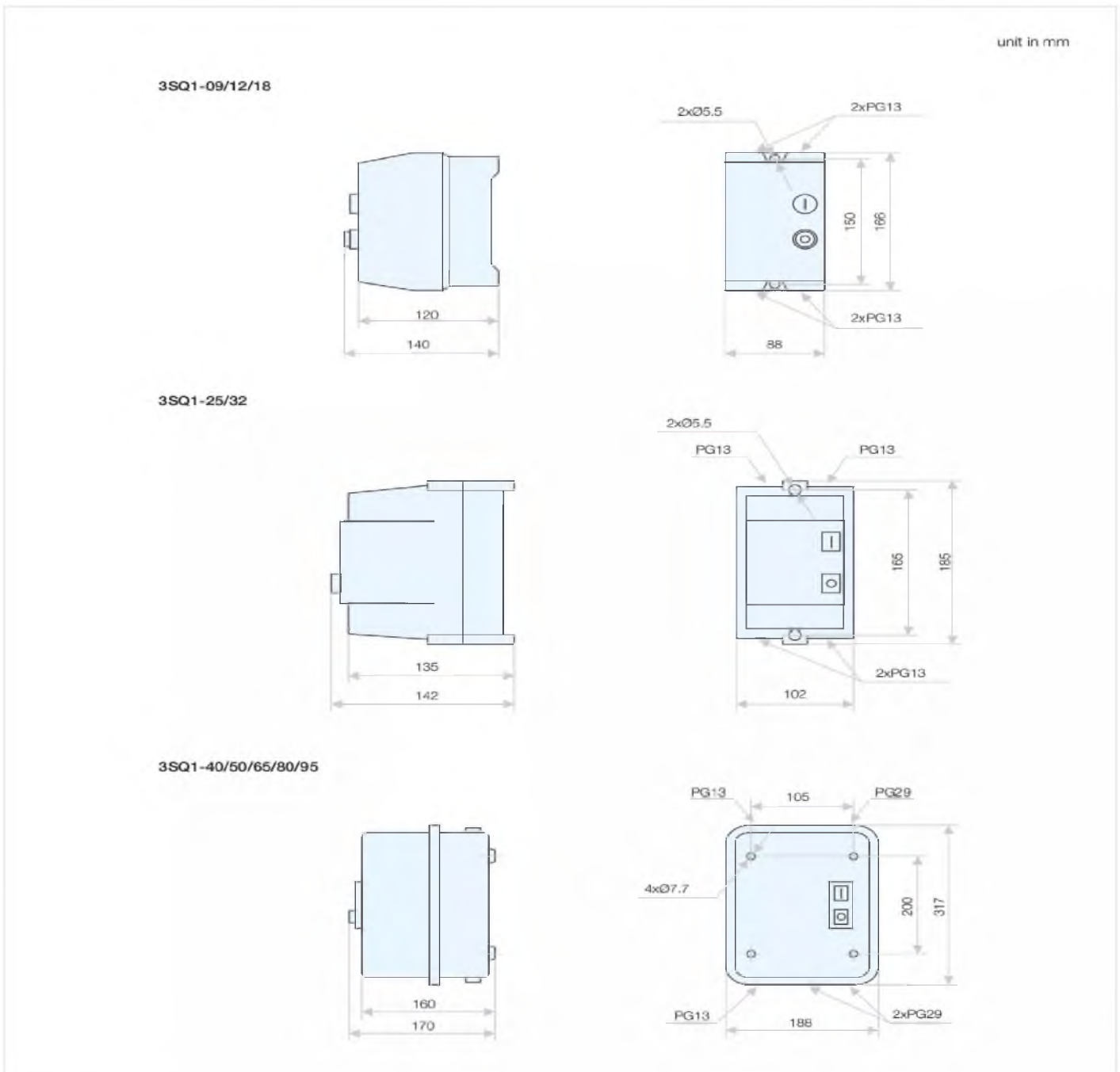
## Technical specifications

- Type: 3SQ1
- Standards: IEC 60947-4-1, IEC 60439-1
- Rated working current (A): 09, 12, 18, 25, 32, 40, 50, 65, 80, 95
- Rated operational voltage  $U_e$  (V): 690
- Rated insulation voltage  $U_i$  (V): 690
- Rated impulse withstand voltage  $U_{imp}$  (kV): 8
- Rated frequency (Hz): 50/60
- Control (2 pushbuttons mounted on enclosure cover): 1 green Start button “I”; 1 red Stop/Reset button “O”
- Enclosure:
  - 3SQ1-09/12/18 Double insulated, degree of protection IP65;
  - 3SQ1-25/32 Double insulated, degree of protection IP55;
  - 3SQ1-40/50/65/80/95 Metal, degree of protection IP65
- Electrical life ( $\times 10$  times): 5
- Mechanical life ( $\times 10$  times): 50
- The model of matched AC contactor: 3SC8
- The model of matched thermal relay: 3SR8
- Ambient air temperature (°C): -5 to +40, max. 95 % humidity
- Storage temperature (°C): -40 ~ +75
- Maximum operating altitude (meters): 2000

## Selection and ordering data

	Standard power ratings of 3 phase motors 50-60 Hz in category AC-3			Rated working current in category AC-3, 380 V (A)	Conventional thermal current I <sub>th</sub> (A)	Type code of matched contactor	Type code of matched thermal relay	230 V 50 Hz	
	220 V (KW)	380 V (KW)	660 V (KW)					Type code	Order code
	2.2	4	5.5	9	20	C809	R8 D13	Q1 09P5	25606
	3	5.5	7.5	12	20	C812	R8 D13	Q1 12P5	25607
	4	7.5	9	18	32	C818	R8 D13	Q1 18P5	25608
	5.5	11	15	25	40	C825	R8 D13	Q1 25P5	25609
	7.5	15	18.5	32	50	C832	R8 D13	Q1 32P5	25610
	11	18.5	30	40	60	C840	R8 D33	Q1 40P5	25611
	15	22	33	50	80	C850	R8 D33	Q1 50P5	25612
	18.5	30	37	65	80	C865	R8 D33	Q1 65P5	25613
	22	37	45	80	110	C880	R8 D33	Q1 80P5	25614
	25	45	45	95	125	C895	R8 D33	Q1 95P5	25615

## Outline and installation dimensions



## 3SQ8-D

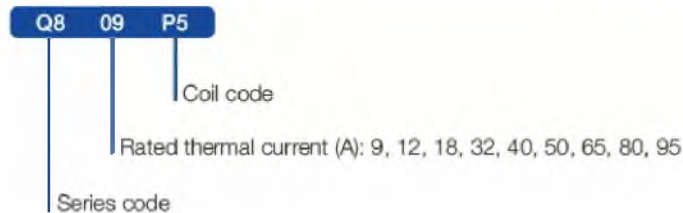
Independent power supply with build-in power source, directly draws power from the incoming end to avoid the risk of protection function failure caused by external power failure.

- Overload protection
- Short circuit protection
- Isolation
- Controlling
- Used in residential building, non-residential building, industry, energy and infrastructure

### Applications And Functions

- For startup of motor that has heavy duty and current used is high
- Reducing the starting current and starting torque when motor starts up
- Smaller circuit breakers and thinner 3-phase line wires can be installed to supply power to the motor

### Instruction of type code



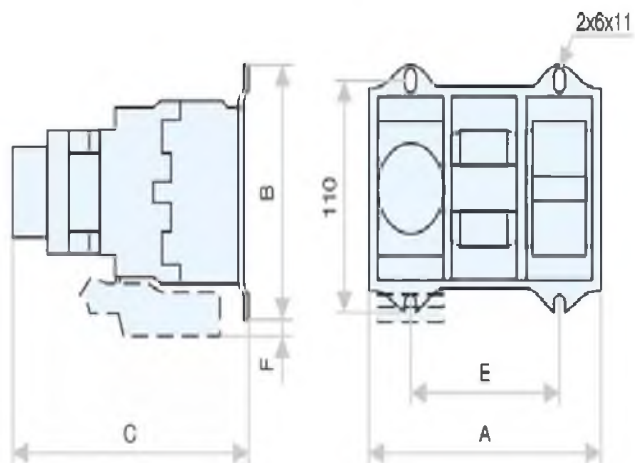
### Selection and ordering data

	Rated operating current 380V AC-3 (A)	Standard power ratings of 3 phase motors 50-60 Hz AC-3				230 V 50 Hz Please contact us for other coil voltage	
		220 V 230 V (KW)	380 V 400 V (KW)	415 V (KW)	445 V (KW)	Type code	Order code
	9	4	7.5	7.5	7.5	Q8 D093P5	12981
	12	5.5	11	11	11	Q8 D123P5	12982
	18	7.5	15	15	18.5	Q8 D183P5	12983
	25	11	18.5	18.5	22	Q8 D253P5	12984
	32	15	25	25	30	Q8 D323P5	12985
	40	18.5	33	33	37	Q8 D403P5	12986
	50	25	45	45	59	Q8 D503P5	12987
	65	30	55	55	59	Q8 D653P5	12988
	80	37	63	63	75	Q8 D803P5	12989
	95	45	80	80	80	Q8 D953P5	12990

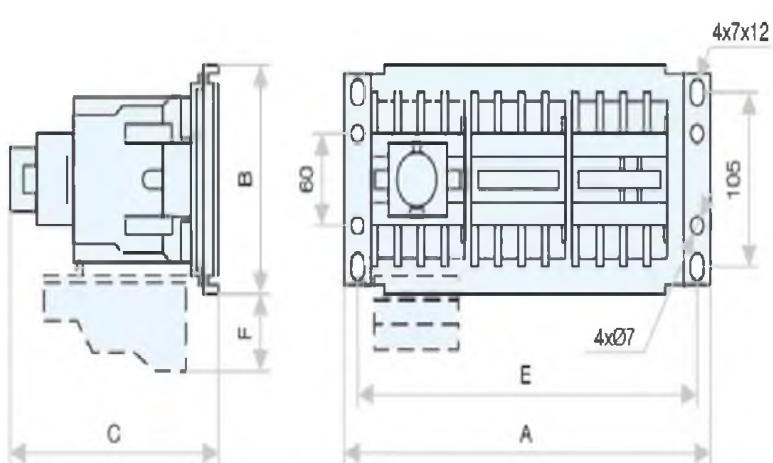
### Outline and installation dimensions

unit in mm

3SQ8-09-32



3SQ8-40-95



Model	A	B	C	E	F
3SQ8-09-18	135	124	153	90±0.5	22
3SQ8-25-32	166	124	165	90±0.5	35
3SQ8-40-65	285	143	178	267±1.0	50
3SQ8-80-95	315	143	187	297±1.0	80

## PXQ61, star-delta starters

- For startup of motor that has heavy duty and current used is high
- Reducing the starting current and starting torque when motor starts up
- Smaller circuit breakers and thinner 3-phase line wires can be installed to supply power to the motor

### Technical Specifications

- For startup of motor that has heavy duty and current used is high
- Reducing the starting current and starting torque when motor starts up
- Smaller circuit breakers and thinner 3-phase line wires can be installed to supply power to the motor

## PQ61, Enclosed direct-on-line (DOL) starters

- Controlling the direct start and halt of the electromotor
- Protecting the motor from overload and phase failure
- Used in remote making and breaking circuit and frequently starting and controlling motor.

### Technical Specifications

- Standards: IEC 60947-4-1, IEC 60439-1
- Rated working current (A): 09, 12, 18, 25, 32, 40, 50, 65, 80, 95
- Rated operational voltage  $U_e$  (V): 690
- Rated insulation voltage  $U_i$  (V): 690
- Rated impulse withstand voltage  $U_{imp}$  (kV): 8
- Rated frequency (Hz): 50/60
- Control (2 pushbuttons mounted on enclosure cover):
- 1 green Start button "I"; 1 red Stop/Reset button "O"
- Enclosure: PQ61-09/12/18 Double insulated, degree of protection IP65;
- PQ61-25/32 Double insulated, degree of protection IP55;
- PQ61-40/50/65/80/95 Metal, degree of protection IP65
- 5 Electrical life ( $\times 10$  times): 5
- 5 Mechanical life ( $\times 10$  times): 50
- Matched AC contactor: PC61
- Matched thermal overload relay: PTR61
- Ambient air temperature (°C): -5 to +40, max. 95 % humidity
- Storage temperature (°C): -40 ~ +75
- Maximum operating altitude (meters): 2000

## VXQ51, star-delta starters

- For startup of motor that has heavy duty and current used is high
- Reducing the starting current and starting torque when motor starts up
- Smaller circuit breakers and thinner 3-phase line wires can be installed to supply power to the motor

## Applications And Functions

For startup of motor that has heavy duty and current used is high

Reducing the starting current and starting torque when motor starts up

Smaller circuit breakers and thinner 3-phase line wires can be installed to supply power to the motor

## VQ51, enclosed direct-on-line (DOL) starters

- Controlling the direct start and halt of the electromotor
- Protecting the motor from overload and phase failure
- Used in remote making and breaking circuit and frequently starting and controlling motor.

### Technical Specifications

- Standards: IEC 60947-4-1, IEC 60439-1
- Rated working current (A): 09, 12, 18, 25, 32, 40, 50, 65, 80, 95
- Rated operational voltage  $U_e$  (V): 690
- Rated insulation voltage  $U_i$  (V): 690
- Rated impulse withstand voltage  $U_{imp}$  (kV): 8
- Rated frequency (Hz): 50/60
- Control (2 pushbuttons mounted on enclosure cover):
  - 1 green Start button "I"; 1 red Stop/Reset button "O"
- Enclosure: VQ51-09/12/18 Double insulated, degree of protection IP65;
  - VQ51-25/32 Double insulated, degree of protection IP55;
  - VQ51-40/50/65/80/95 Metal, degree of protection IP65
- 5 Electrical life ( $\times 10$  times): 5
- 5 Mechanical life ( $\times 10$  times): 50
- Matched AC contactor: VC51
- Matched thermal overload relay: VTR51
- Ambient air temperature ( $^{\circ}\text{C}$ ): -5 to +40, max. 95 % humidity
- Storage temperature ( $^{\circ}\text{C}$ ): -40 ~ +75
- Maximum operating altitude (meters): 2000

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