



LINHA PS10

PS10 SERIES/ LÍNEA PS10

SOFT STARTER

ESPECIFICAÇÕES TÉCNICAS

TECHNICAL SPECIFICATIONS/ ESPECIFICACIONES TÉCNICAS

PT

EN

ES



PRINCIPAIS CARACTERÍSTICAS

- Adequado para motores assíncronos de gaiola de esquilo;
- Função "Bypass" integrada;
- Tensão aplicável: 220 - 380 VCA;
- Potências disponíveis: 2,2 - 75 kW;
- Controla o motor para acelerar suavemente durante a partida e desacelerar suavemente na parada.



PT

ESPECIFICAÇÕES GERAIS



Tensão de comando (L / N)	100 a 240 VCA 50/60 Hz
Consumo da entrada digital	20 mA
Alimentação (L1/R, L2/S, L3/T)	220 ~ 380 V ($\pm 10\%$) 50/60 Hz
Tensão inicial	30 a 70% U_N
Tempo de aceleração	1 ~ 30 s
Tempo de desaceleração	1 ~ 30 s
Proteções / Diagnósticos	Sobrecorrente e subcorrente
	Proteção de sobrecarga (classes 10A, 10, 20 e 30)
	Desequilíbrio de corrente entre fases
	Proteção de tempo máximo de partida
	Falta de fase / sem tensão de comando
	Sequência de fase
Valor máximo de partidas por hora	4x (1 partida a cada 15 minutos) com carga leve 5 ~ 10x sem carga
	Ciclo de partida
Saídas (Relé 1NA (1 A @ 250 VCA))	3 x I_N por 7 segundos com ciclo de trabalho em 50%
Comunicação	Indicação partida (Run) e indicação falha (Fault)
Temperatura	Interface serial RS485 (opcional)
Umidade	0 a 50 °C (32 a 122 °F)
Altitude	0 a 90% não condensado
Grau de proteção	0 a 1000 m
Fixação	IP21
Invólucro	Trilho DIN 35mm ou parafusos M4
	Plástico injetado

MODELOS

PT



FRAME A
PS10-11-4T



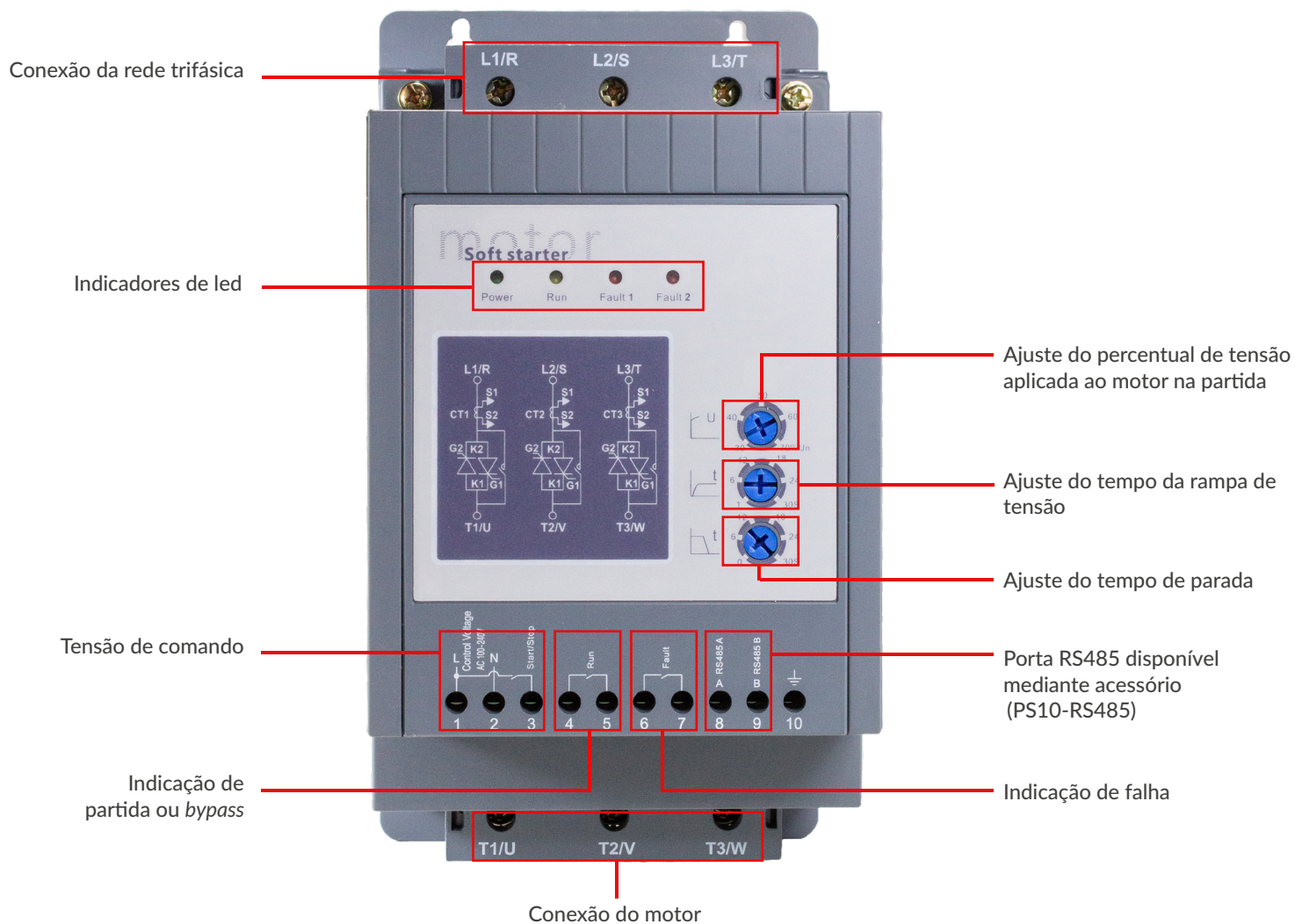
FRAME B
PS10-22-4T



FRAME C
PS10-30-4T
PS10-45-4T
PS10-60-4T



FRAME D
PS10-90-4T
PS10-110-4T
PS10-150-4T



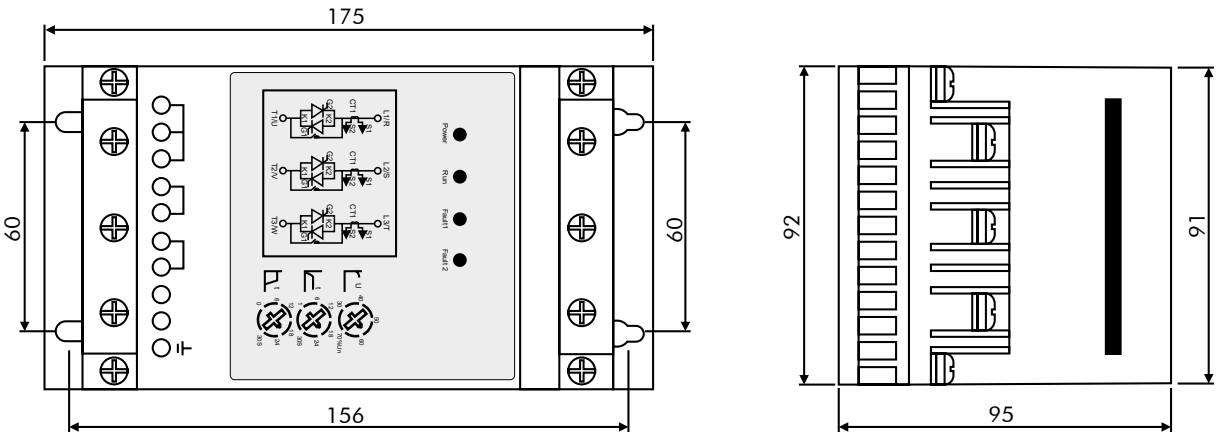
CÓDIGOS

PT

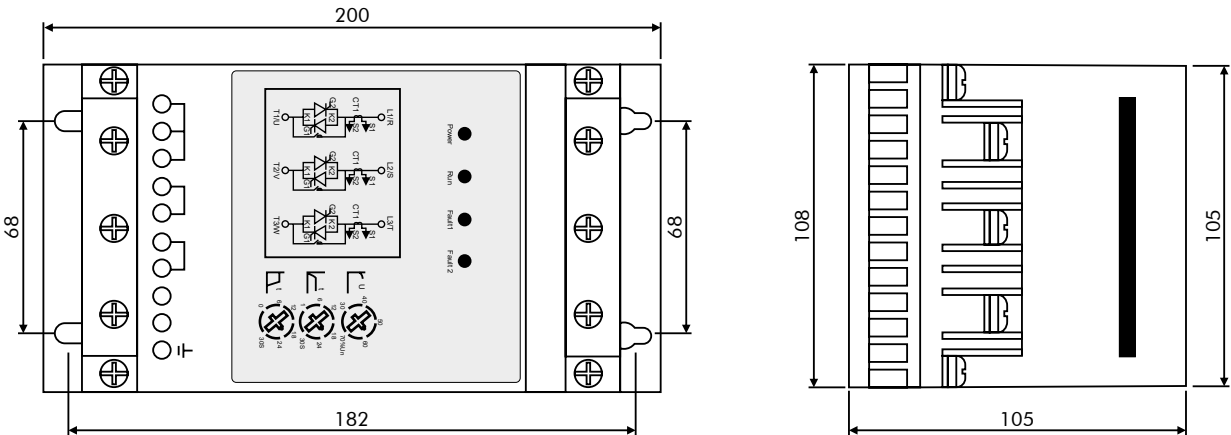
Motor aplicável		Corrente nominal	Frame	Peso	Modelo
220 V	380 V				
2,2 kW / 3 HP	4,5 kW / 6 HP	11	A	1,0 Kg	PS10-11-4T
5,5 kW / 7,5 HP	11 kW / 15 HP	22	B	1,4 Kg	PS10-22-4T
7,5 kW / 10 HP	15 kW / 20 HP	30	C	2,4 Kg	PS10-30-4T
11 kW / 15 HP	22 kW / 30 HP	45			PS10-45-4T
15 kW / 20 HP	30 kW / 40 HP	60			PS10-60-4T
22 kW / 30 HP	45 kW / 60 HP	90	D	5,0 Kg	PS10-90-4T
30 kW / 40 HP	55 kW / 75 HP	110		5,2 Kg	PS10-110-4T
37 kW / 50 HP	75 kW / 100 HP	150			PS10-150-4T

DIMENSÕES (mm)

FRAME A
PS10-11-4T

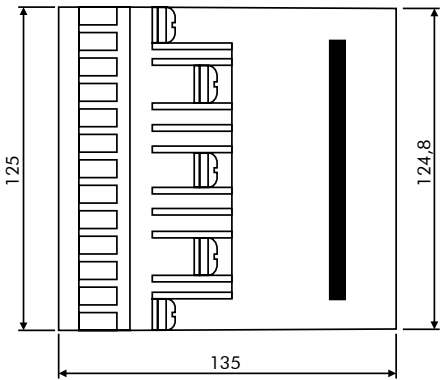
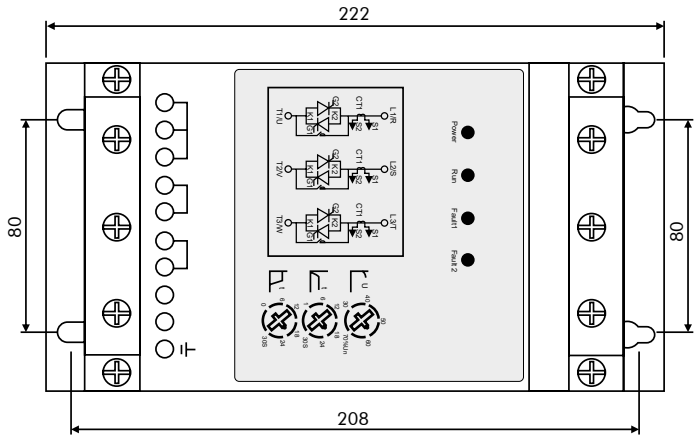


FRAME B
PS10-22-4T



FRAME C

PS10-30-4T
PS10-45-4T
PS10-60-4T



FRAME D

PS10-90-4T
PS10-110-4T
PS10-150-4T

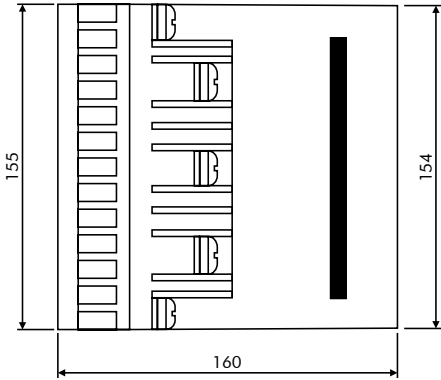
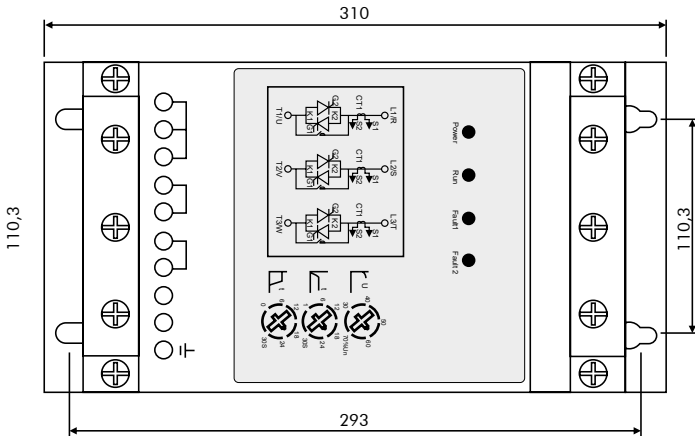
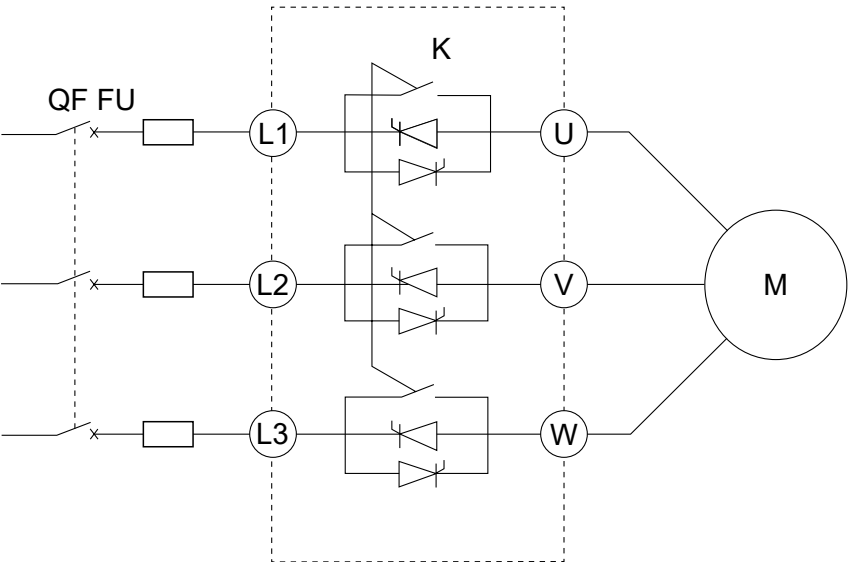


DIAGRAMA BÁSICO DE LIGAÇÃO

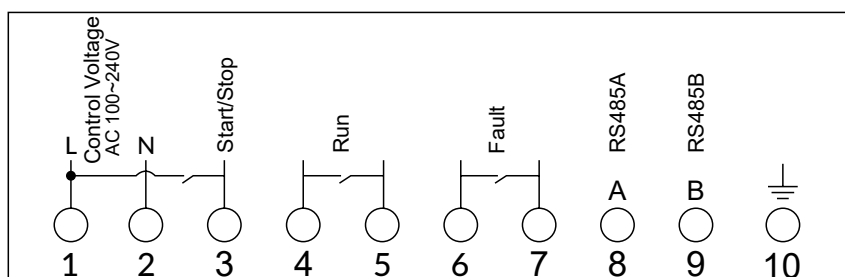
Ligação para motor trifásico



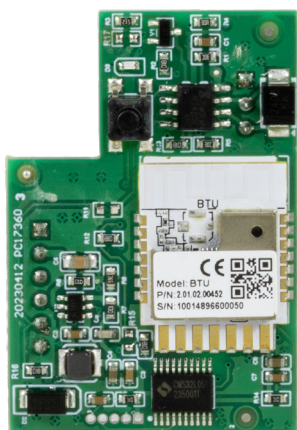
Legenda	Símbolo	Descrição
QF		Disjuntor
FU		Fusível
K		Bypass

Terminais de controle

PT

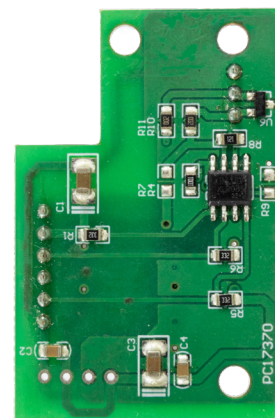


ACESSÓRIOS



PS10-BLUE*

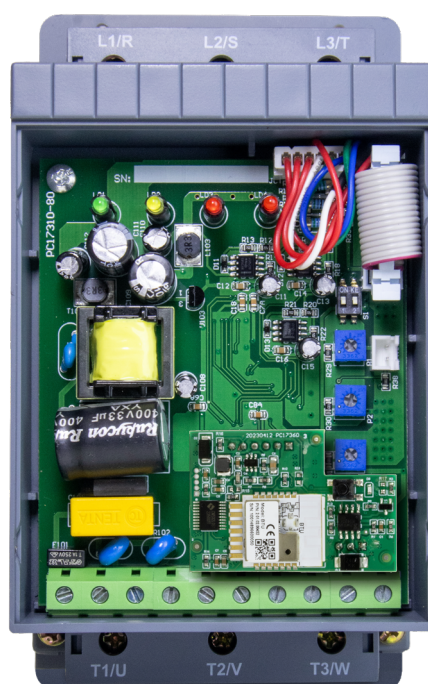
Placa de comunicação Bluetooth



PS10-RS485*

Placa de comunicação RS485

*Vendido separadamente



Aplicação

Placa de comunicação Bluetooth PS10-BLUE com Soft Starter PS10-11-4T

MAIN CHARACTERISTICS

- Suitable for squirrel-cage asynchronous motors;
- Integrated Bypass function;
- Applicable voltage: 220 - 380 VAC;
- Available powers: 2.2 - 75 kW;
- Controls the motor to accelerate smoothly when starting and decelerate smoothly when stopping.



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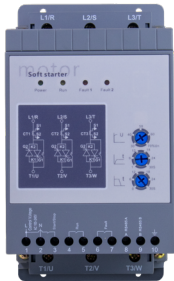
CE

GENERAL SPECIFICATIONS

Control Voltage (L / N)	100 to 240 VAC 50/60 Hz
Digital input consumption	20 mA
Power supply (L1/R, L2/S, L3/T)	220 ~ 380 V ($\pm 10\%$) 50/60 Hz
Starting voltage	30 to 70% U_N
Acceleration time	1 ~ 30 s
Deceleration time	1 ~ 30 s
Protections / Diagnostics	Overcurrent and undercurrent
	Overload protection (classes 10A, 10, 20 and 30)
	Current unbalance between phases
	Maximum start time protection
	Phase loss / no control voltage
	Phase sequence
	Overheating protection in SCR
Maximum number of starts per hour	4x (1 start every 15 minutes) on light load 5 ~ 10x on no load
Starting cycle	3 x I_N for 7 seconds with duty cycle 50%
Outputs (1NO relay (1 A @ 250 VAC))	Start status (Run) and fault status (Fault)
Communication	Serial interface RS485 (optional)
Temperature	0 to 50 °C (32 to 131 °F)
Humidity	0 to 90% non condensing
Altitude	0 to 1000 m
Degree of Protection	IP21
Fastening	DIN 35 mm rail or M4 screws
Enclosure	Injected plastic

MODELS

EN



FRAME A
PS10-11-4T



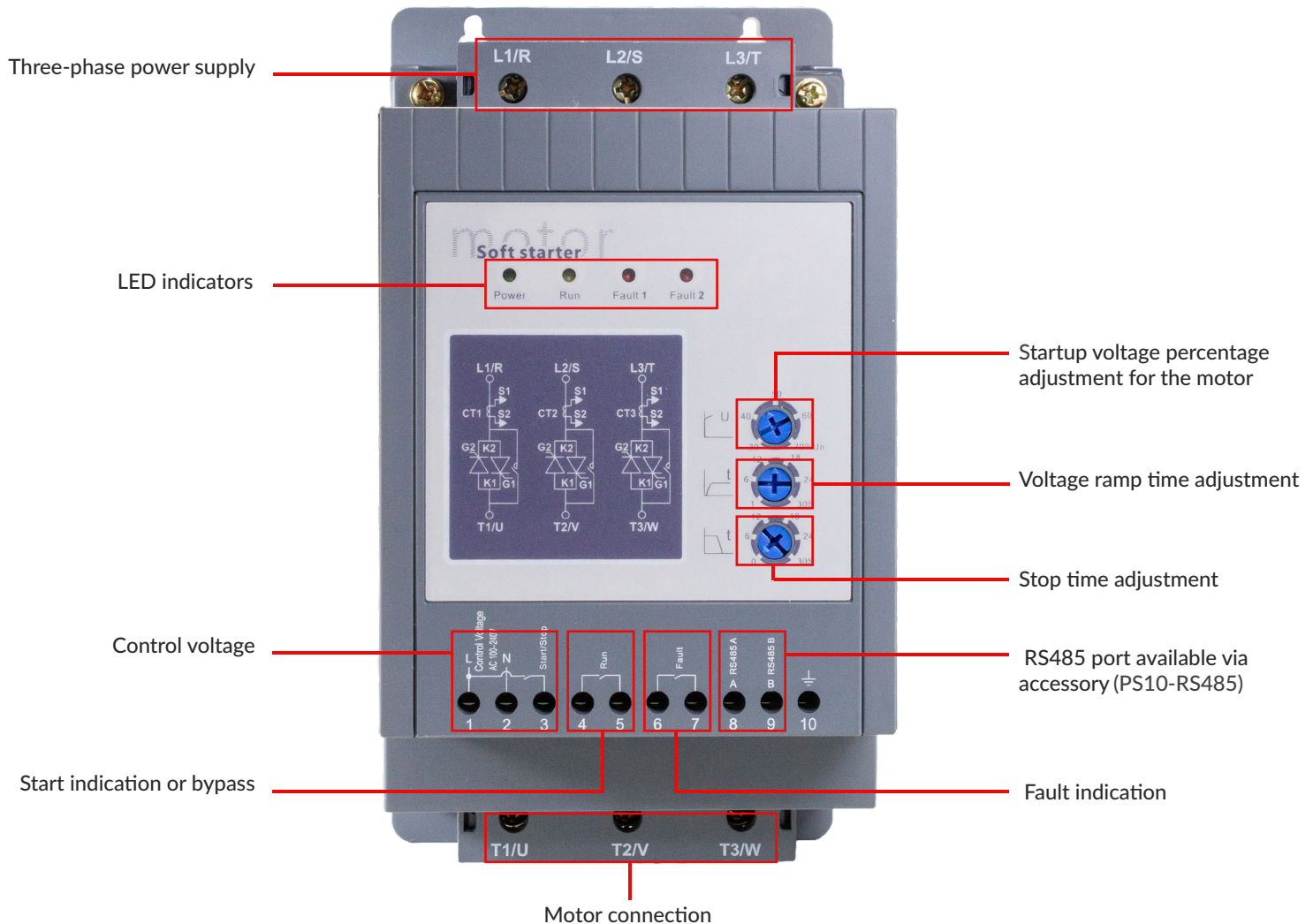
FRAME B
PS10-22-4T



FRAME C
PS10-30-4T
PS10-45-4T
PS10-60-4T



FRAME D
PS10-90-4T
PS10-110-4T
PS10-150-4T



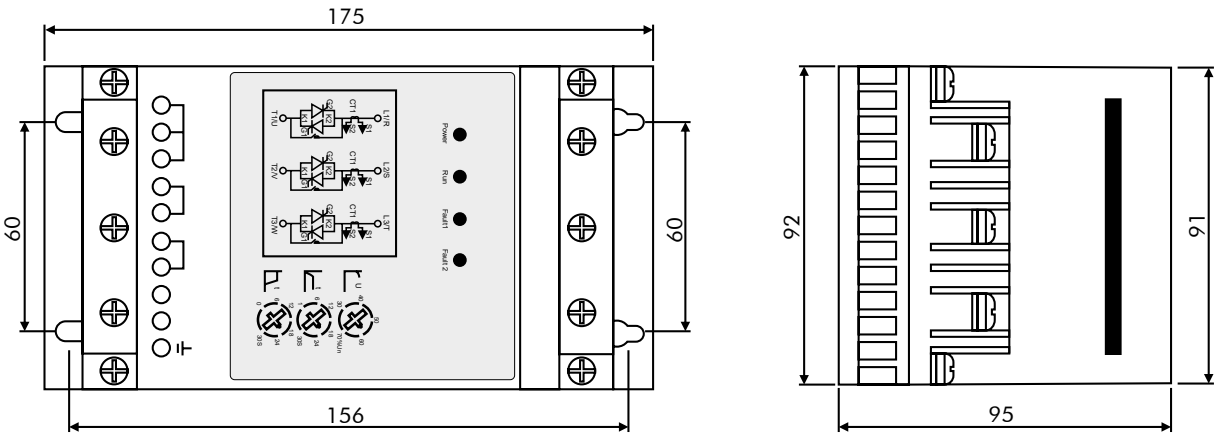
CODES

EN

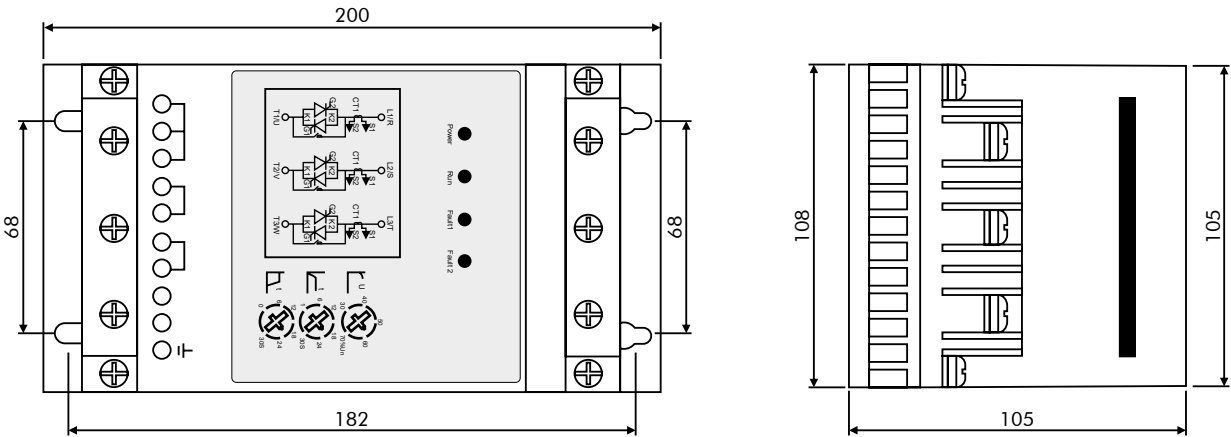
Applicable motor (max.)		Rated current In (A)	Frame	Weight	Model
220 V	380 V				
2,2 kW / 3 HP	4,5 kW / 6 HP	11	A	1,0 Kg	PS10-11-4T
5,5 kW / 7,5 HP	11 kW / 15 HP	22	B	1,4 Kg	PS10-22-4T
7,5 kW / 10 HP	15 kW / 20 HP	30	C	2,4 Kg	PS10-30-4T
11 kW / 15 HP	22 kW / 30 HP	45			PS10-45-4T
15 kW / 20 HP	30 kW / 40 HP	60			PS10-60-4T
22 kW / 30 HP	45 kW / 60 HP	90	D	5,0 Kg	PS10-90-4T
30 kW / 40 HP	55 kW / 75 HP	110		5,2 Kg	PS10-110-4T
37 kW / 50 HP	75 kW / 100 HP	150			PS10-150-4T

DIMENSIONS (mm)

FRAME A
PS10-11-4T

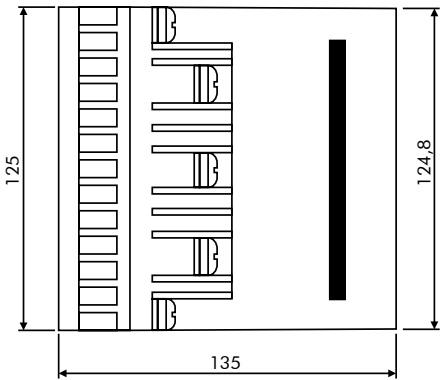
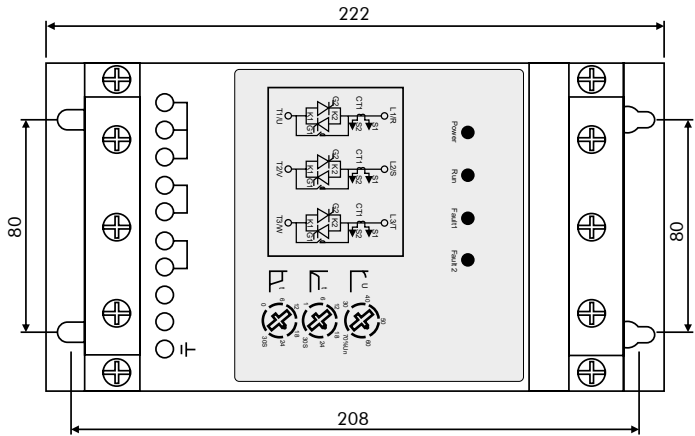


FRAME B
PS10-22-4T



FRAME C

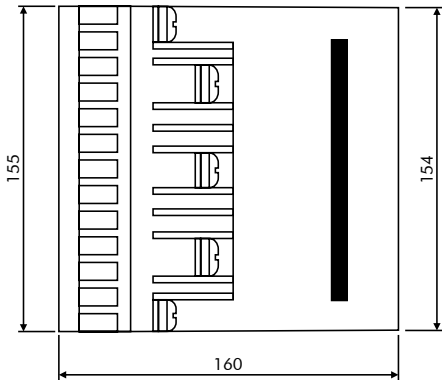
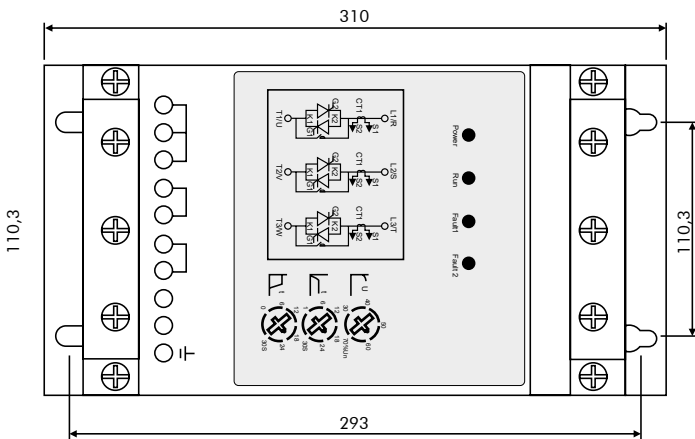
- PS10-30-4T
- PS10-45-4T
- PS10-60-4T



EN

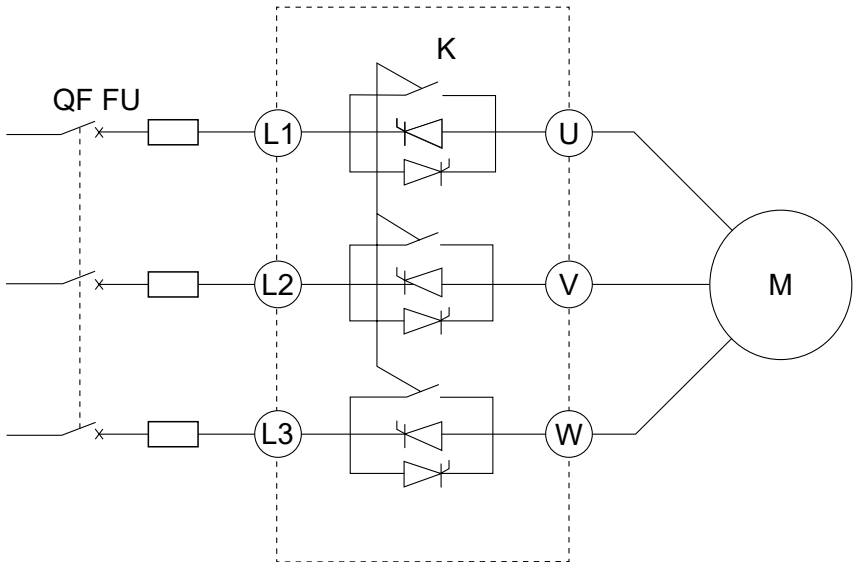
FRAME D

- PS10-90-4T
- PS10-110-4T
- PS10-150-4T



BASIC WIRING DIAGRAM

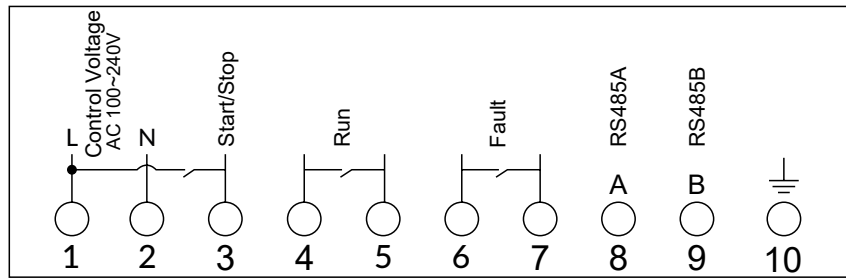
Connection for three-phase motor



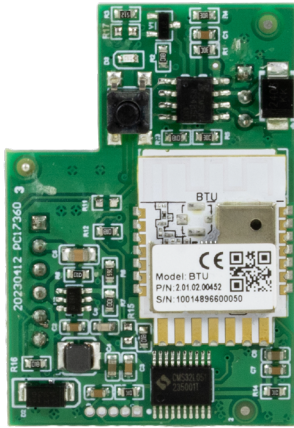
Subtitle	Symbol	Description
QF		Breaker
FU		Fuse
K		Bypass

Control terminals

EN

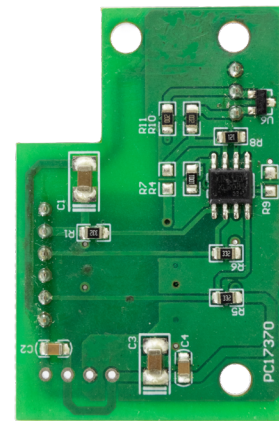


ACCESSORIES



PS10-BLUE*

Bluetooth communication board



PS10-RS485*

RS485 communication board

*Sold separately



Application

PS10 -BLUE bluetooth communication board
with Soft Starter PS10-11-4T

PRINCIPALES CARACTERÍSTICAS

- Adecuado para motores asíncronos de jaula de ardilla;
- Función "Bypass" integrada;
- Tensão aplicable: 220 - 380 VCA;
- Potencias disponibles: 2,2 - 75 kW;
- Controla el motor para acelerar suavemente durante el arranque y desacelerar suavemente en la parada.



ES

ESPECIFICACIONES GENERALES



Tensión de control (L/N)	100 a 240 VCA 50/60 Hz
Consumo de la entrada digital	20 mA
Alimentación (L1/R, L2/S, L3/T)	220 ~ 380 V ($\pm 10\%$) 50/60 Hz
Tensión de arranque	30 a 70% U_N
Tiempo de aceleración	1 ~ 30 s
Tiempo de desaceleración	1 ~ 30 s
Protecciones / Diagnósticos	Sobrecorriente y baja corriente
	Protección de sobrecarga (clases 10A, 10, 20 y 30)
	Desequilibrio de corriente entre fases
	Protección de tiempo máximo de arranque
	Falla de fase/sin tensión de control
	Secuencia de fases
Valor máximo de arranques por hora	4x (1 arranque cada 15 minutos) con carga ligera 5 ~ 10x sin carga
	3 x I_N por 7 segundos con ciclo de trabajo de 50%
Salidas (Relé 1NA (1 A @ 250 VCA))	Indicación de operación (Run) e indicación de falla (Fault)
Comunicación	Interface serial RS485 (opcional)
Temperatura	0 a 50 °C (32 a 122 °F)
Humedad	0 a 90% sin condensación
Altitud	0 a 1000 m
Grado de protección	IP21
Fijación	Riel DIN 35 mm o tornillos M4
Envolvente	Plástico inyectado

MODELOS

ES



FRAME A
PS10-11-4T



FRAME B
PS10-22-4T



FRAME C
PS10-30-4T
PS10-45-4T
PS10-60-4T



FRAME D
PS10-90-4T
PS10-110-4T
PS10-150-4T

Conexión de la red trifásica

Indicadores de led

Ajuste porcentual de tensión aplicada al motor en el arranque

Ajuste del tiempo de la rampa de tensión

Ajuste del tiempo de parada

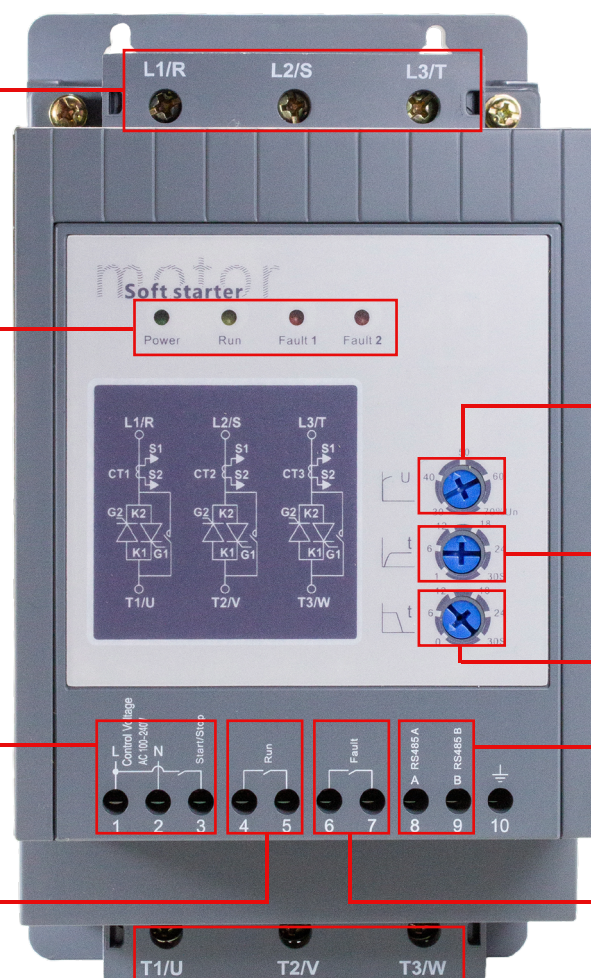
Tensión de comando

Puerto RS485 disponible mediante accesorio

Indicación de operación o bypass

Indicación de falla

Conexión del motor



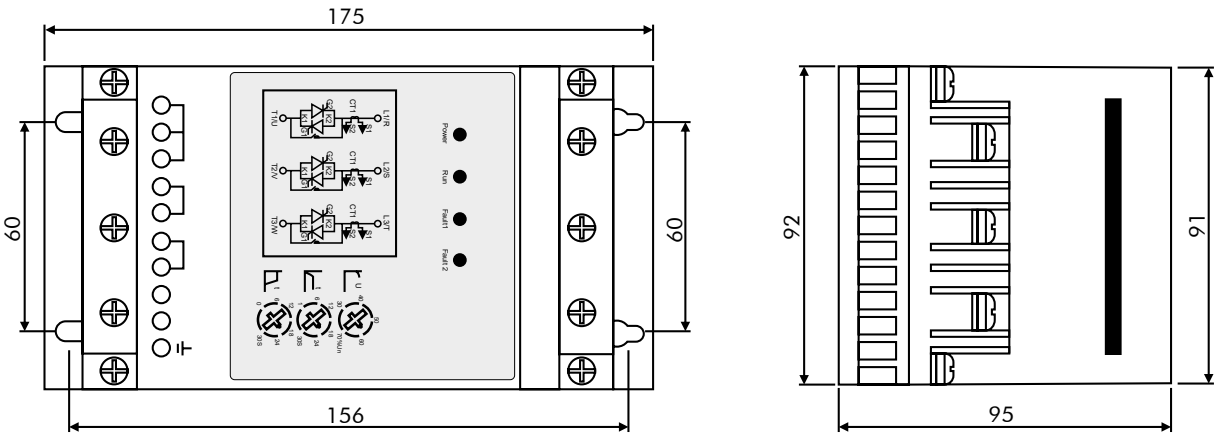
CÓDIGOS

ES

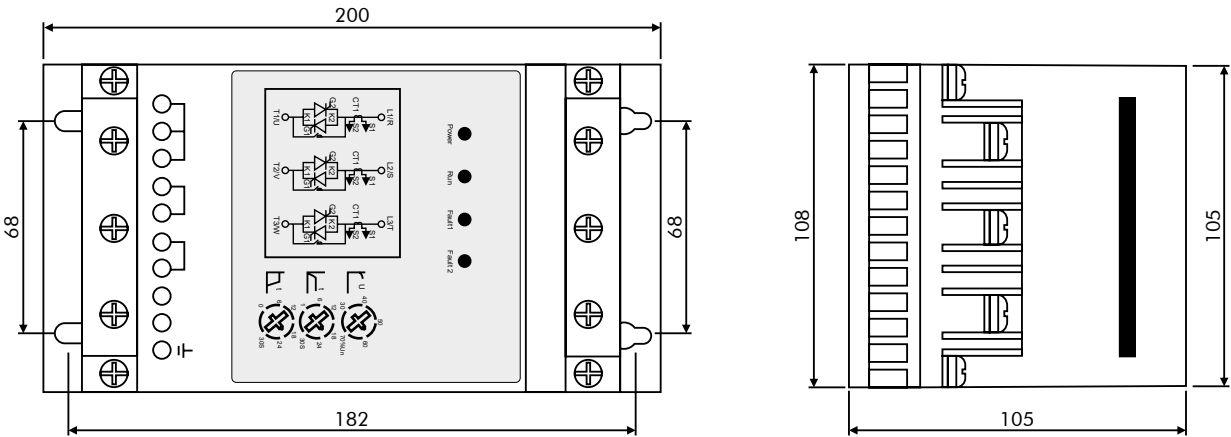
Motor aplicable		Corriente nominal	Frame	Peso	Modelo
220 V	380 V				
2,2 kW / 3 HP	4,5 kW / 6 HP	11	A	1,0 Kg	PS10-11-4T
5,5 kW / 7,5 HP	11 kW / 15 HP	22	B	1,4 Kg	PS10-22-4T
7,5 kW / 10 HP	15 kW / 20 HP	30	C	2,4 Kg	PS10-30-4T
11 kW / 15 HP	22 kW / 30 HP	45			PS10-45-4T
15 kW / 20 HP	30 kW / 40 HP	60			PS10-60-4T
22 kW / 30 HP	45 kW / 60 HP	90	D	5,0 Kg	PS10-90-4T
30 kW / 40 HP	55 kW / 75 HP	110		5,2 Kg	PS10-110-4T
37 kW / 50 HP	75 kW / 100 HP	150			PS10-150-4T

DIMENSIONES (mm)

FRAME A
PS10-11-4T

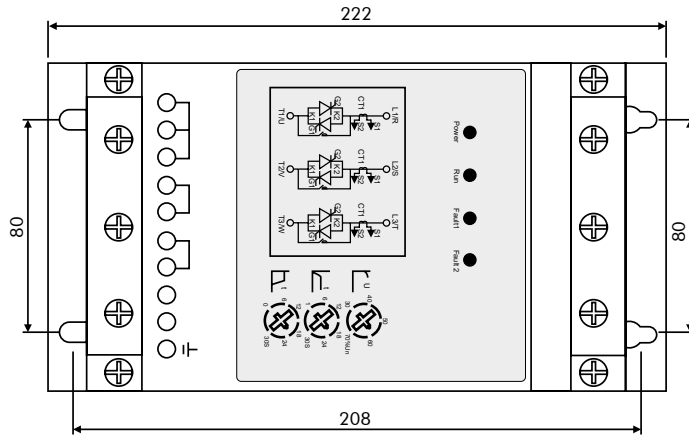


FRAME B
PS10-22-4T



FRAME C

PS10-30-4T
PS10-45-4T
PS10-60-4T



ES

FRAME D

PS10-90-4T
PS10-110-4T
PS10-150-4T

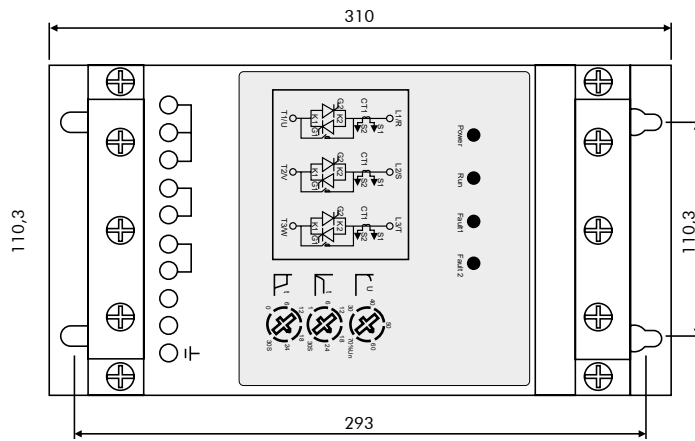
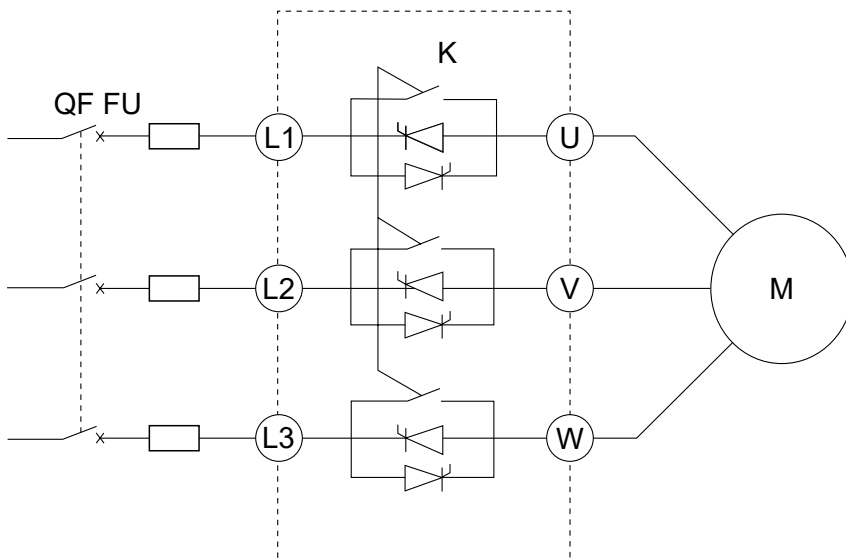


DIAGRAMA BÁSICO DE CONEXIÓN

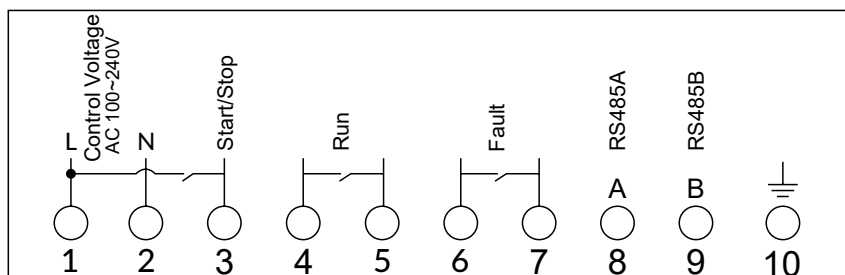
Conexión para motor trifásico



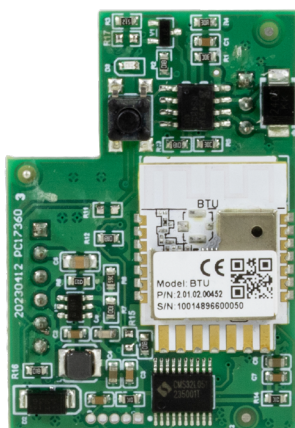
Leyenda	Símbolo	Descripción
QF		Disyuntor
FU		Fusible
K		Bypass

Terminales de control

ES

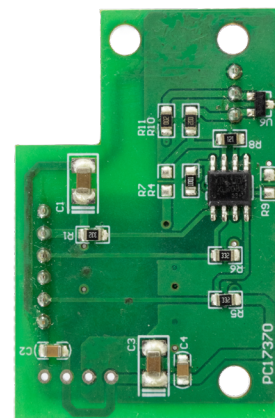


ACCESORIOS



PS10-BLUE*

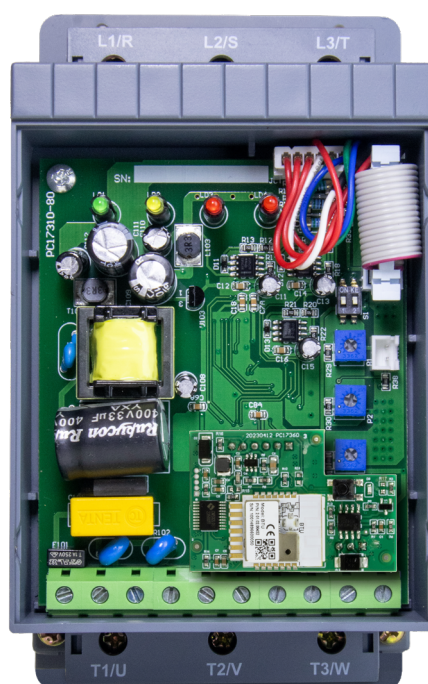
Tarjeta de comunicación Bluetooth



PS10-RS485*

Tarjeta de comunicación RS485

*Vendido separadamente



Aplicación

Tarjeta de comunicación Bluetooth PS10-BLUE en Soft Starter PS10-11-4T