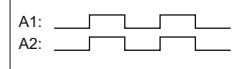

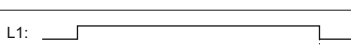
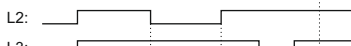

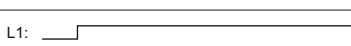
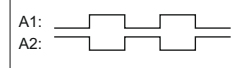

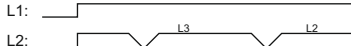
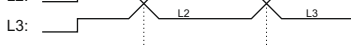
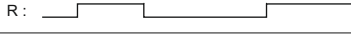
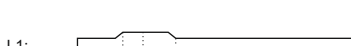
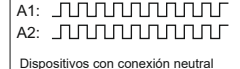
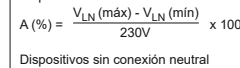
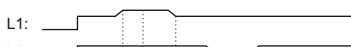
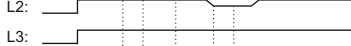
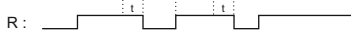
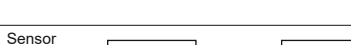
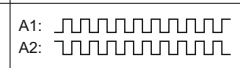


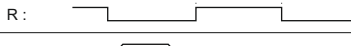
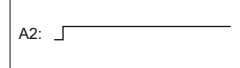
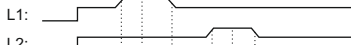
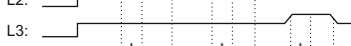

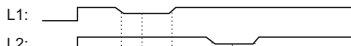

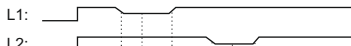
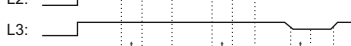


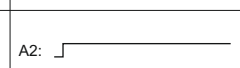
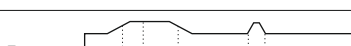


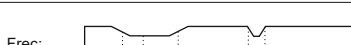

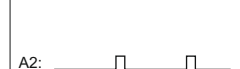

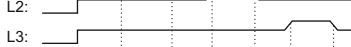

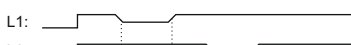
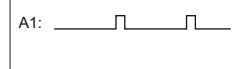


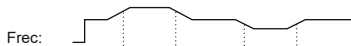


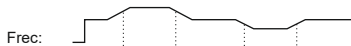

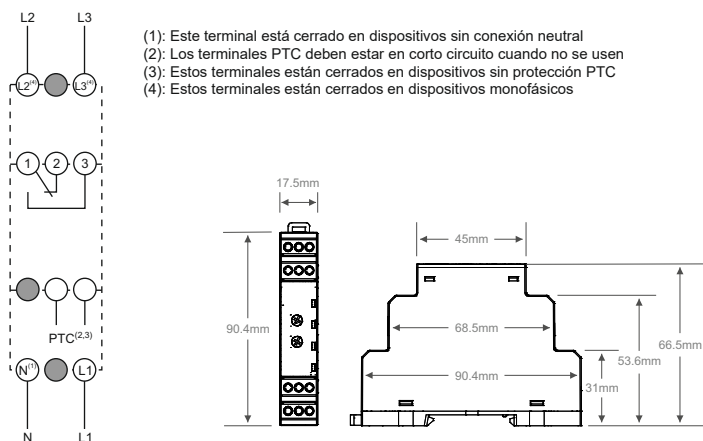


Klemsan® Series C1, V1, F1

Relés de protección

Voltaje de operación (U _N)	85 .. 320V AC (Series C1, V1, F1) 150 .. 500V AC (Series C1D, V1D) 60 .. 185V AC (V1-M-L)
Entrada de alimentación	L1-N (Series C1, V1, F1) L2-L3 (Series C1D, V1D)
Frecuencia de operación	35 .. 70 Hz
Rango de medición de voltaje	U _N
Rango de ajuste de voltaje	150 .. 210V AC (Series C1, V1) 270 .. 370V AC (Series C1D, V1D) 80 .. 110V AC (V1-M-L)
Límite inferior	
Límite superior	240 .. 300V AC (Series C1, V1) 400 .. 500V AC (Series C1D, V1D) 125 .. 155V AC (V1-M-L)
Histéresis de voltaje	6V AC
Rango de ajuste del tiempo de retardo	0.1 .. 10s / 1 .. 10s (F1) / 0.1 .. 20s (V1-T)
Rango de ajuste de frecuencia (F1)	40 - 42.5 - 45 - 47.5 .. 62.5 Hz 42.5 - 45 - 47.5 - 50 .. 65 Hz
Límite inferior	
Límite superior	
*El límite superior debe ser por lo menos 2.5Hz mayor que el límite inferior para su correcto funcionamiento	
Histéresis de frecuencia (F1)	0.4Hz
Rango de ajuste del desbalance	%5 .. %20
Histéresis del desbalance	%3 x 230V AC (Serie P1) %3 x 400V AC (Serie P1D)
Umbral de alarma PTC	≈1100Ω
Umbral de sobretensión	310V AC (Series C1, V1) 510V AC (Series C1D, V1D) 165V AC (V1-M-L)
Umbral de baja tensión	140V AC (Series C1, V1) 240V AC (Series C1D, V1D) 68V AC (V1-M-L)
Contacto de salida	1 C/O
Máxima corriente de conmutación	10A
Máximo voltaje de conmutación	250V AC
Máxima potencia de conmutación	1250VA
Temperatura de operación	-20°C .. 60°C
Temperatura de almacenamiento	-40°C .. 75°C
Clase de protección	IP20
Conexión	Montaje en riel

TIPO DE FALLA	INDICADOR LED	DESCRIPCIÓN
Falla de fase	A1:  A2: 	L1:  L2:  L3:  R: 
Error de secuencia de fase	A1:  A2: 	L1:  L2:  L3:  R: 
Desbalance	A1:  A2:  Dispositivos con conexión neutral $A (%) = \frac{V_{LN}(máx) - V_{LN}(mín)}{230V} \times 100$ Dispositivos sin conexión neutral $A (%) = \frac{V_{LL}(máx) - V_{LL}(mín)}{400V} \times 100$	L1:  L2:  L3:  R: 
Error PTC	A1:  A2: 	Sensor PTC  R: 
Sobretensión	A2: 	L1:  L2:  L3:  R: 
Baja tensión	A1: 	L1:  L2:  L3:  R: 
Sobrefrecuencia	A2: 	Frec:  R: 
Bajafrecuencia	A1: 	Frec:  R: 
Umbral superior de voltaje	A2: 	L1:  L2:  L3:  R: 
Umbral inferior de voltaje	A1: 	L1:  L2:  L3:  R: 
Error de frecuencia (F < 32Hz o F > 100Hz)	ON: 	Frec:  R: 



Tipo	Con. neutral	Falla de fase	Secuencia de fase	Desbalance	Prot. PTC	Prot. ajustable de voltaje	Prot. ajustable de frecuencia	Prot. de sobre / baja tensión	Retardo de encendido	Retardo de apagado	No. de orden
C1-SA	✓	✓	✓	✓				✓		✓	270 156
C1-SAP	✓	✓	✓	✓	✓			✓		✓	270 157
C1-SVP	✓	✓	✓	✓	✓	✓		✓		✓	270 158
C1D-SA		✓	✓	✓				✓		✓	270 256
C1D-SAP		✓	✓	✓	✓			✓		✓	270 257
C1D-SVP		✓	✓	✓	✓	✓		✓		✓	270 258
V1	✓	✓				✓		✓		✓	270 159
V1-S	✓	✓	✓			✓		✓		✓	270 160
V1-T	✓	✓				✓		✓	✓	✓	270 162
V1-M	✓					✓		✓		✓	270 170
V1-M-L	✓					✓		✓		✓	270 171
V1D		✓				✓		✓		✓	270 259
V1D-S		✓	✓			✓		✓		✓	270 260
F1	✓						✓			✓	270 161