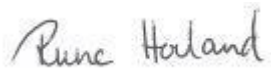


FDV – DOKUMENTASJON		Nr.:047
		Rev.:
		Dato: 10.8.2015
Produktspesifikasjon	Impulsrelé	
Produktnavn	Serie Pulsar S	
Anvisning for drift	Ingen	
Vedlikehold	Produktet er vedlikeholdsfritt	
Henvisninger Vedlegg	Produktkatalog, dokumentasjon, brukerveiledning og tekniske data	
Produsent	General Electric	
Importør	EFA Elektro AS, Postboks 593, 1411 Kolbotn, Norway Tlf. 66812400 e-mail: post@efa.no - www.efa.no	

EFA Elektro AS



Serviceingeniør vern og startapparater

Standard IEC 60669-1 og 60669-2-2

				PLS +			PLS + C ⁽⁴⁾	
				PLS + 16	PLS + 32	PLS + SA and SB PLS + PU 16	PLS + C 16	PLS + C 32
Rated current (acc. to IEC 669-2-3)								
250VAC (1 and 2 pole) / 400VAC (3 and 4 pole)	A			16	32	16	16	32
Direct Current (at 30VDC)	A			16	16	16	16	16
Number of poles				1 → 4	1 → 4	2	1 → 4	1 → 3
Contacts	NO			1 → 4	1 → 4	2	1 → 4	1 → 3
	Changeover ("m")			1 → 4	-	-	1 → 4	1 → 3
	NO + NC			1+1 / 2+2	-	-	1+1 / 2+2	-
Width (in 17.8mm DIN modules)								
	1 P	Mod.		1	1	-	1	1
	2 P	Mod.		1	1	1	1½	1½
	3 P	Mod.		2	2	-	2	2
	4 P	Mod.		2	2	-	2	-
Coil specifications								
Supply voltage : DC/AC ratio ⁽¹⁾				0.5 / 1	0.5 / 1	0.5 / 1	0.5 / 1	0.5 / 1
Supply voltage range (in % of Un)	%			90-110	90-110	90-110	90-110	90-110
Coil pick-up power (AC)	1P and 2P	VA		14.5	16.0	14.5	4.8	14.5
	3P and 4P	VA		14.5	16.0	-	8.0	16.0
Coil power loss - AC	1P and 2P	VA		11.0	11.5	11.0	3.2	11.0
	3P and 4P	VA		11.0	11.5	-	6.0	11.0
Coil power loss - DC	1P and 2P	W		7.5	8.0	7.5	2.9	12.5
	3P and 4P	W		7.5	8.0	-	5.4	14.5
Maximum coil holding voltage time				⁽²⁾	⁽²⁾	⁽²⁾	unlimited	⁽²⁾
Impulse times								
Minimum impulse time (under Un)	sec.			0.050	0.050	0.050	0.050	0.100
Minimum impulse time (90% Un)	sec.			0.100	0.100	0.100	0.100	0.100
Minimum time between impulses	sec.			0.150	0.150	0.150	0.150	0.150
Maximum number of impulses per mn				250	250	250	250	250
Lifetime (in number of operations)⁽³⁾								
Electrical (in AC-1 - At full load) ⁽⁴⁾				4 × 10 ⁵	3 × 10 ⁵	3 × 10 ⁵	2 × 10 ⁵	4 × 10 ⁵
Mechanical				2 × 10 ⁶	2 × 10 ⁶	2 × 10 ⁶	1 × 10 ⁶	2 × 10 ⁶
Load specifications								
Maximum load AC-1 per phase	A			20	32	20	20	32
Maximum load DC (30VDC)	A			16	16	16	16	16
Minimum load per phase (under 5V)	W			2	2	2	2	2
Short-circuit fuse protection	A			20	32	20	20	32
Maximum lamp load (10³ operations/h)								
Incandescence and halogen (40 to 200 W lamps)	W			3,000	4,000	3,000	3,000	4,000
Fluorescence, compensated (cos φ = 0.9)								
	Serial compensation	VA		3,000	4,000	3,000	3,000	4,000
	Parallel compensation	VA		2,500	3,200	2,500	2,500	3,200
Fluorescence, non compensated (cos φ = 0.5)	VA			1,800	2,200	1,800	1,800	2,200
Maximum number of push-buttons								
Non illuminated push-buttons				unlimited	unlimited	unlimited	unlimited	unlimited
Luminous push-buttons (0.6mA)								
4 terminals				unlimited	unlimited	unlimited	unlimited	unlimited
3 terminals	Without compensator			8	8	8	6	8
	1 compensator			18	18	18	15	27
	2 compensators			45	45	45	38	43
General specifications								
Power contact add-on				yes	yes	no	no	no
Auxiliary contact add-on (PLS / CTX R)				yes	yes	no	yes	yes
Need for spacer ⁽²⁾				yes	yes	yes	no	yes
DIN rail mounting				yes	yes	yes	yes	yes
2-position DIN rail lock				yes	yes	yes	yes	yes
2-position handle				yes	yes	no	yes	yes
Indicator of contact position				yes	yes	yes	yes	yes
Clamping terminals				yes	yes	yes	yes	yes
Unlosable screws				yes	yes	yes	yes	yes
Sealable terminals (coil and load)				yes	yes	yes	yes	yes
Cable cross section (Ø min/max)	Coil	mm ²		1.5 / 10	1.5 / 10	1.5 / 10	1.5 / 10	1.5 / 10
	Load 1P-3P and 4P	mm ²		1.5 / 10	1.5 / 10	1.5 / 10	1.5 / 10	1.5 / 10
	Load 2P	mm ²		1.5 / 10	1.5 / 10	1.5 / 10	1.5 / 10	1.5 / 6
Maximum torque on terminals	Nm			1	1	1	1	1
Ambient temperature at installation point (min./max.)	°C			-20 / +45	-20 / +45	-20 / +45	-20 / +45	-20 / +45

(1) For all impulse relays, DC supply voltage = AC supply voltage x DC/AC ratio, except for 8VAC and 115VAC (48VDC)

(2) Whenever the normal use of the impulse relay integrates a permanent coil working, use of a spacer is required on both sides. Make sure that the duty factor allows the device to come back to the ambient temperature (not required for PLS PU)

(3) 1 cycle = 2 operations per pole (closing + opening)

(4) For any central command installation, a PLS SG module per phase must be installed in order to protect the coils against overvoltages

