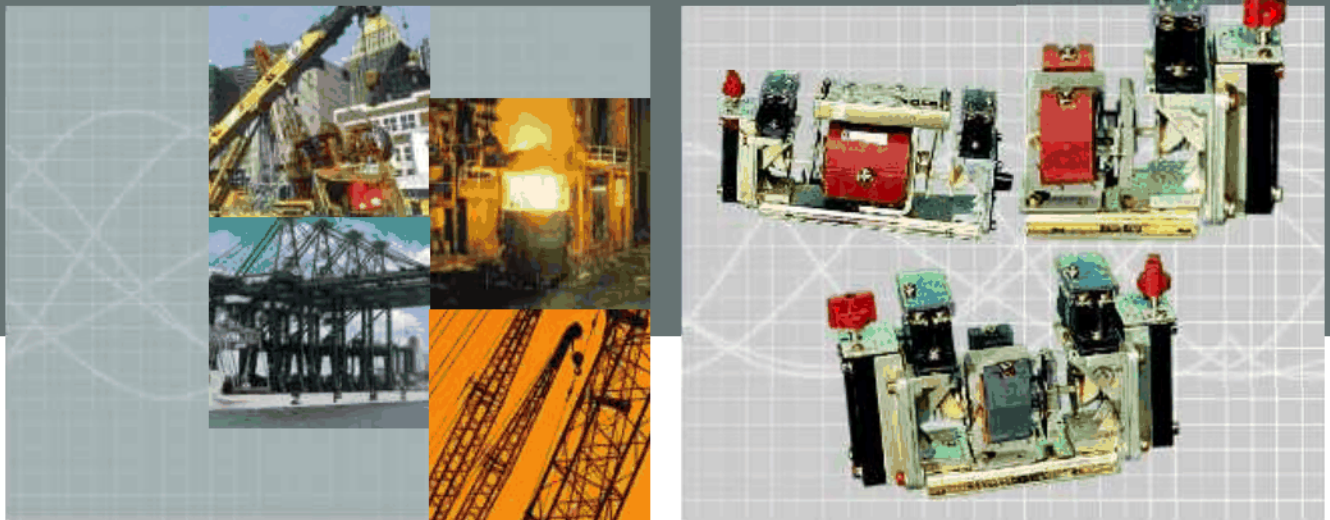




TIME DELAY RELAY (PNEUMATIC TIMERS)



BCH ELECTRIC LIMITED



Time Delay Relay (Pneumatic Timer)

- Wide Ambient Operating Temperature Range -40°C to +65°C
- Timers with/without instantaneous contacts
- High speed operations with 0.02 Sec (AC) reset time
- Wide range coil Voltages - AC/DC
- Modular Construction for easy maintenance
- Enclosed Timing Head and Molded coil for adverse industrial environment
- On site On Delay-Off Delay logic conversion
- Special models for Railway Application
- Compliance with IEC 60947-5-1 & IS 5834 - Part - I
- General Purpose On/Off Delay Timers

Suitable for dusty environment
withstand vibration applications

General Specifications

		AC Coil	DC Coil
Utilisation Category		AC 15	DC 13
Thermal Current		15A	
Time Range		0.05 sec - 30 sec 0.05 sec - 60 sec 0.05 sec - 180 sec ±10%	
Repeat Accuracy			
Reset time		0.02 sec	0.10 sec
Coil Voltages		24/110/220/240/415 V	24/110/220/240 V
Coil Voltage Tolerance		+10%, -15%	
Mechanical & Electrical Life	PN	10 x 10 ⁶ operations	
	PNI/PCN	1.2 x 10 ⁶ operations	
Max. Operating Frequency - at rated load	PN	12000 operations/hr	
	PNI/PCN	1500 operations/hr	
Coil Insulation		Class E	Class B

Contact Ratings

PN, PCN, PNI Timers - AC Voltages

AC - 15 rating @ 50 Hz	Single C/O	Double C/O
600 V	0.8 A	0.6 A
440 V	1.0 A	0.8 A
240 V	2.0 A	1.5 A
110 V	4.0 A	3.0 A

PN, PCN Timers - DC Voltages

DC-13 rating	Single C/O	Double C/O
600 V	0.1 A	0.02 A
220 V	0.5 A	0.2 A
110 V	2.0 A	0.5 A

PNI Timers - DC Voltages

DC - 13 rating	Single C/O	Double C/O
600 V	0.1 A	—
220 V	0.3 A	0.1 A
110 V	1.0 A	0.2 A

Coil Power Data

Power Consumption	PN Timer	AC Coil - PNI & PCN Type	DC coil : PNI & PCN Type
Rated Power	20 VA	26 VA	—
Inrush Power	95 VA	130 VA	25 W



Spares

Description	Cat. No.
Contact Block With Cover :	
1NO + 1NC (Timed)	SP20S3
2NO + 2NC (Timed)	SP20S4
1NO + 1NC (Instantaneous)	SP20S5
2NO + 2NC (Instantaneous)	SP20S6
Magnet Coil :	
AC -PN Type	SP20MC ■
AC - PNI & PCN Types	SP20MC1 ■
DC - PN, PNI & PCN Types	SP20MC2 ■
Magnet Frame Assembly w/o Coil	SP20MA/MA1
For DC Timers	
Return Spring for PNI & PCN Type	SP20RS
Coil Clip	SP20CC

■ Suffix Coil Voltage From Table - I

Ordering Information

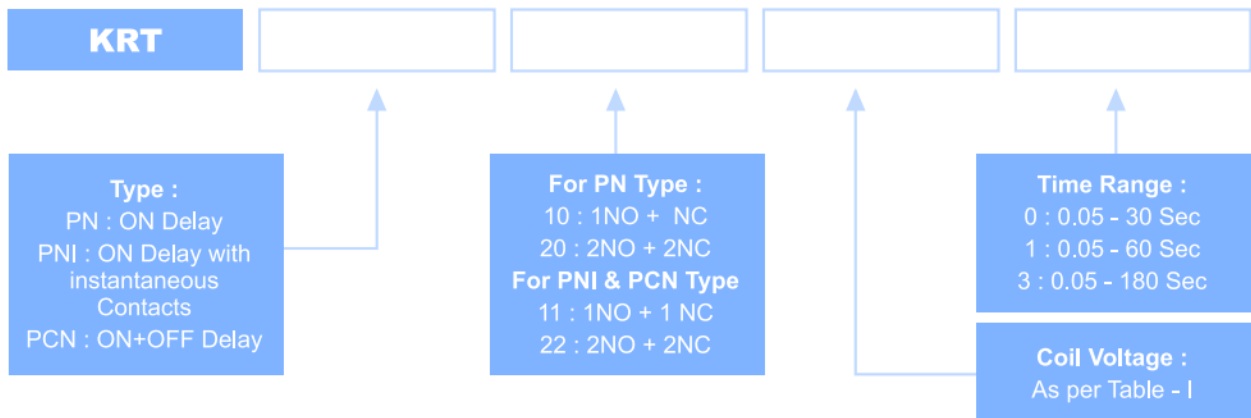
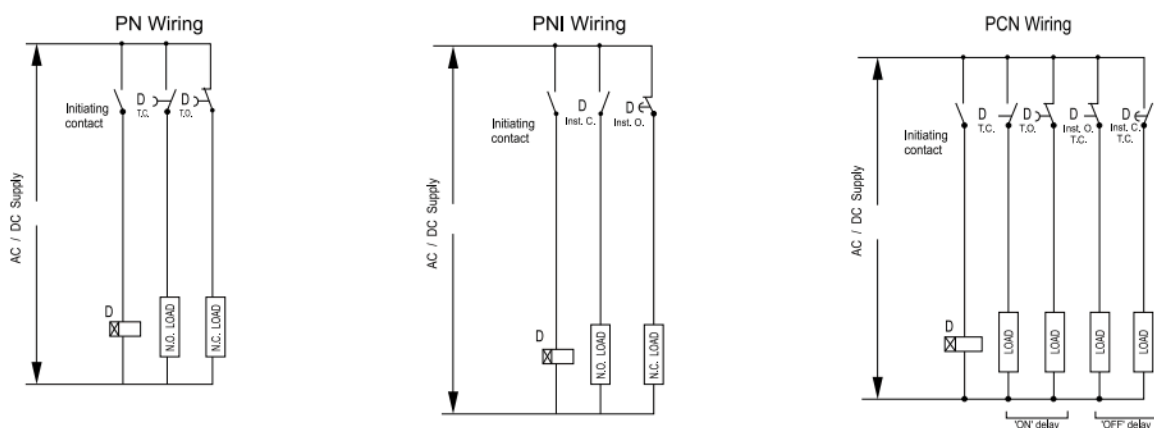


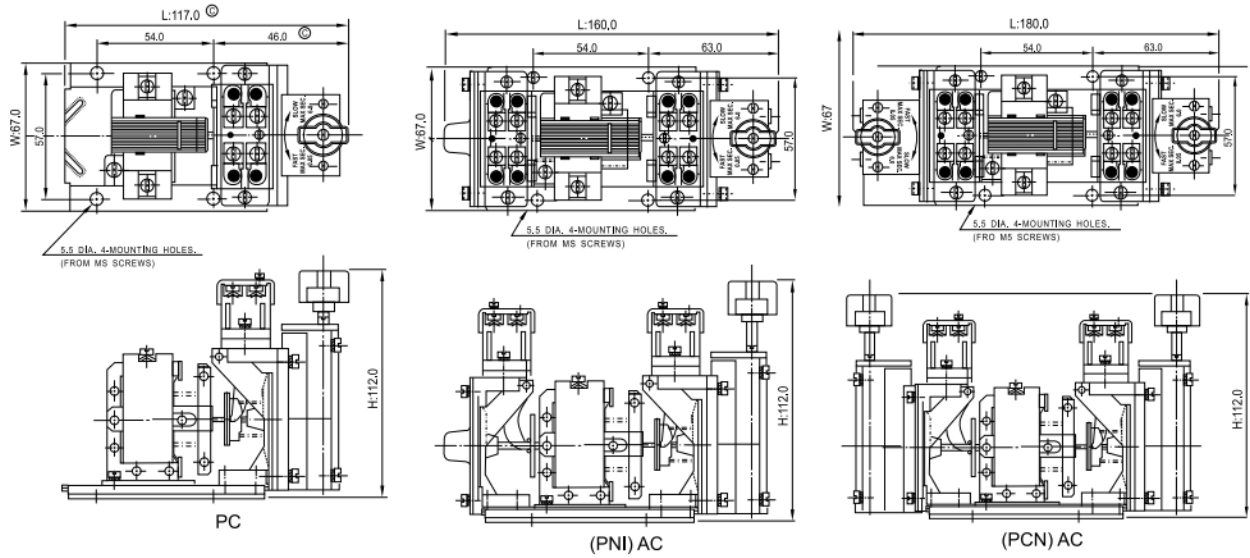
Table - 1 (Coil Voltage)

Coil Voltage (V)	24	110	220	240	415
AC	U	A	B	K	L
DC	U1	A1	B1	K1	—

Wiring Diagrams



Dimensions (mm)



Pneumatic Timer - DC Coil (Dimension)

Overall Dimension				Mounting Dimensions (5.5 dia 4-Mounting holes)
	L	W	H	(For M5 Screws)
PN	210	88	112	120.7 x 57.0
PNI	227	88	112	120.7 x 57.0
PCN	247	88	112	120.7 x 57.0