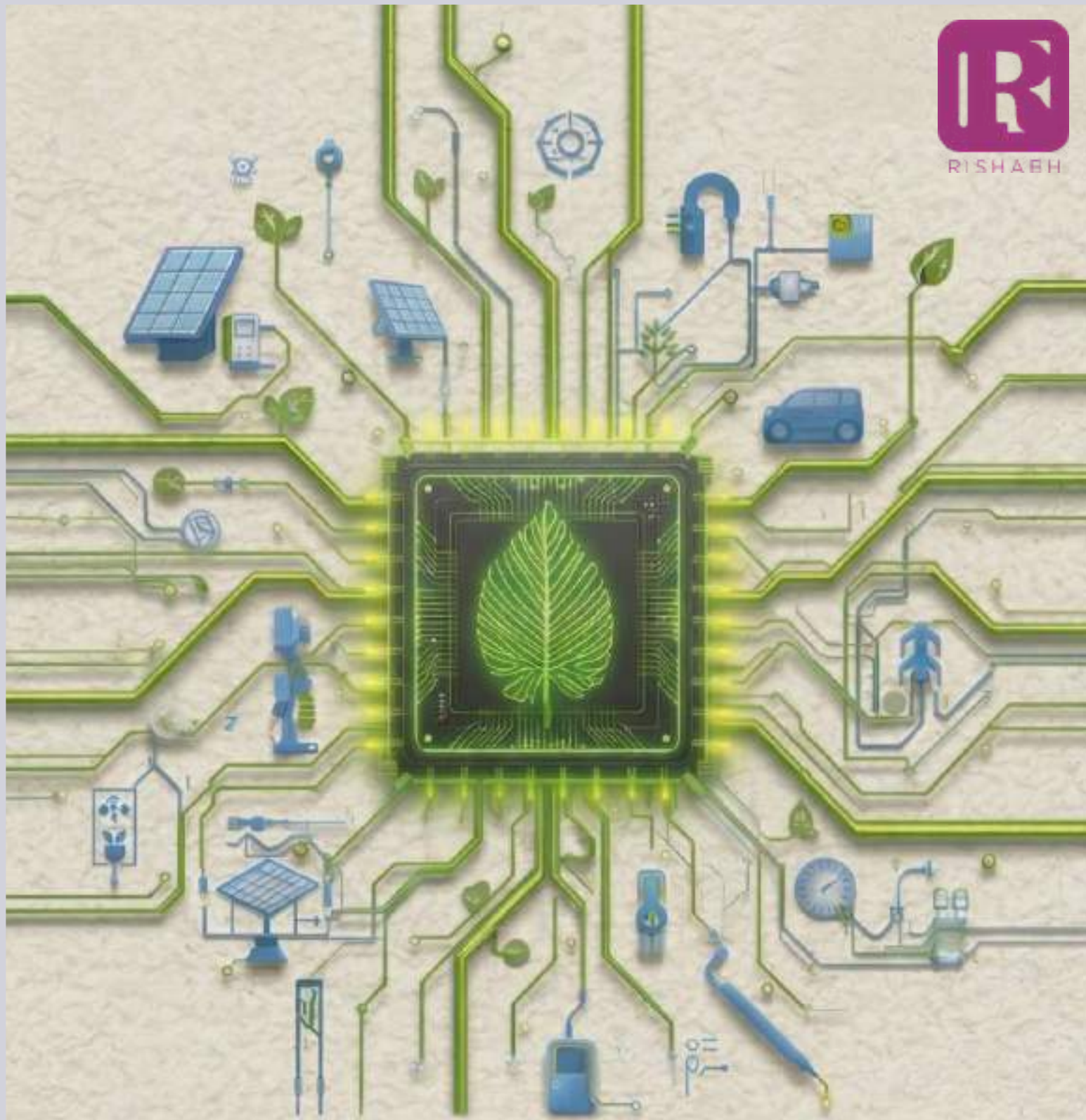




REDEFINING EFFICIENCY

**Smart Solutions for a
Sustainable Future**

Digital Expertise

Price List | Edition 2026-27

Index

Digital Expertise	Page No.
Digital Panel Meters	1
Multi-Function Meters	6
Electrical Transducers	16
Isolators	22
Protection Relays	25
CBCT	27
Static Relays	29
Battery Chargers	33
Power Supplies	33
Product Phase Out	36
Terms and conditions	37

KMAT	Model	Size (H x W x D)	Description	Auxiliary Supply	LP (INR)
Programmable AC Ammeter					
EP99	RISH EINE I	48 x 96 x 68 mm 96 x 96 x 40 mm#	Input : 1A /5A (Programmable) Display : 14 mm LED Display 1 Phase Network Accuracy Class : 1.0 4 Digit	40...300V AC/DC or 20...40V AC / 20...60V DC	980
			Input 1A /5A (Programmable) Display : 14 mm LED Display 3Ph 3W/4W Network Accuracy Class : 1.0 4 Digit		1,625
		48 x 96 x 68 mm	Input : 100mA (Primary - 63 / 125 / 250A programmable) Display : 14 mm LED Display 3Ph 3W/4W Network Accuracy Class : 0.5 4 Digit		1,795
ED99	RISH EINE NX*	96 x 96 x 40 mm	Input : 1A /5A (Programmable) 1 Phase Network Accuracy Class : 1 4 Digit	60...300V AC/DC	770
			Input : 1A /5A (Programmable) 3Ph 3W/4W Network Accuracy Class : 1 4 Digit		1,265
Programmable AC Voltmeter					
EP99	RISH EINE V	48 x 96 x 68 mm 96 x 96 x 40 mm#	Input : 57.5 -300 V L-N (Programmable) & 600V LN (Fixed) Display : 14 mm LED Display 1 Phase Network Accuracy Class : 1.0 4 Digit	40...300V AC/DC or 20...40V AC / 20...60V DC	980
			Input : 100- 500 V L-L (Programmable) Display : 14 mm LED Display 3Ph 3W/4W Network Accuracy Class : 1.0 4 Digit		1,625
ED99	RISH EINE NX*	96 x 96 x 40 mm	Input : 57.5 -480 V L-N (Programmable) 1 Phase Network Accuracy Class : 1 3 Digit	60...300V AC/DC	770
			Input : 100- 500 V L-L (Programmable) 3Ph 3W/4W Network Accuracy Class : 1 4 Digit		1,265

Digital Panel Meters



KMAT	Model	Size (H x W x D)	Description	Auxiliary Supply	LP (INR)
Non- Programmable AC Ammeter					
DA14	RISH ACI	72 x 144 x 94 mm	Input : 1 / 5A (To be specified while ordering only) Display : 26 mm LED Display Single Phase Network Accuracy Class : 1 4 1/2 Digit	110 / 230V AC	4,480
				24 / 110 / 220V DC	5,665
Non- Programmable AC Voltmeter					
DA14	RISH ACV	72 x 144 x 94 mm	Input : 110 / 240 / 500V (To be specified while ordering only) Display : 26 mm LED Display Single Phase Network Accuracy Class : 1 4 1/2 Digit	110 / 230V AC	4,480
				24 / 110 / 220V DC	5,665
Optional Accessories		Accuracy Class 0.5 for RISH EINE NX			100
		Accuracy Class 0.5 for RISH EINE & RISH ACI / ACV 72x144			210
		RS 485 + Relay Output (Add the mentioned price to basic RISH EINE NX - 3ph meter)			1,155
		400Hz for RISH ACI/ACV 72 x 144 only			200
		Side mounting clamp (Applicable for 96 x 96mm size, including EINE +)			20
		IP54 Kit (48 x 96 & 96 x 96)			
		SPAR-SD00-0017 - 144 ADAPTER PLATE FOR 96			90
		SPAR-SD00-0093 - 96 ADAPTER PLATE FOR 48			75
Note - # RISH Eine (Size 96 x 96 x 40 mm) : Applicable for auxiliary Supply 20...40V AC / 20...60V DC only *RISH Eine NX : MOQ - 25Nos applicable for any combination and it is mandatory for any order received from channel partners.					



Digital Panel Meters



KMAT	Model	Size (H x W x D)	Description	Auxiliary Supply	LP (INR)
Programmable DC Ammeter					
EI99	RISH EINE +	96 x 96 x 35 mm 48 x 96 x 68 mm	Input : -10...0...+10mA / -20...0...+20mA / 4...20mA / -1...0...+1A / -5...0...+5A Accuracy Class : 0.5 4 Digit (Input range to be specified while ordering only)	40...300VAC/DC or 20...40VAC / 20...60VDC	1,430
Non - Programmable DC Ammeter					
DD14	RISH ADC B	48 x 96 x 138 mm	Input : 0 - 20 & 4 - 20mA Display : 14 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	2,475
				24 / 110 V DC / 220V DC	3,230
		96 x 96 x 55 mm	Input : 0 - 20 & 4 - 20mA Display : 14 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	2,620
				24 / 110 V DC / 220V DC	3,340
		72 x 144 x 94 mm	Input : 0 - 20 & 4 - 20mA Display : 26 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	4,915
				24 / 110 V DC / 220V DC	5,770
Programmable DC Voltmeter					
EI99	RISH EINE +	96 x 96 x 35 mm 48 x 96 x 68 mm	Input : -75...0...+75mV / -150...0...+150mV / -5...0...+5V / -10...0...+10V / 0...500V / 0....1000V Accuracy Class : 0.5 4 Digit (Input range to be specified while ordering only)	40...300VAC/DC or 20...40VAC / 20...60VDC	1,430



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Digital Panel Meters



KMAT	Model	Size (H x W x D)	Description	Auxiliary Supply	LP (INR)
Non - Programmable DC Voltmeters					
DD14	RISH VDC C	48 x 96 x 138 mm	Input : 0 - 60 / 75 / 150 / 200mV Display : 14 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	2,550
				24 / 110 V DC / 220V DC	3,320
	RISH VDC F		Input : 0 - 2 / 20 / 200 / 500 / 1000V Display : 14 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	2,665
				24 / 110 V DC / 220V DC	3,480
	RISH VDC C	96 x 96 x 55 mm	Input : 0 - 60 / 75 / 150 / 200mV Display : 14 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	2,665
				24 / 110 V DC / 220V DC	3,445
	RISH VDC F		Input : 0 - 2 / 20 / 200 / 500 / 1000V Display : 14 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	2,665
				24 / 110 V DC / 220V DC	3,445
	RISH VDC C	72 x 144 x 94 mm	Input : 0 - 60 / 75 / 150 / 200mV Display : 26 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	4,870
				24 / 110 V DC / 220V DC	5,710
	RISH VDC F		Input : 0 - 2 / 20 / 200 / 500 / 1000V Display : 26 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	4,870
				24 / 110 V DC / 220V DC	5,710



Digital Panel Meters



KMAT	Model	Size (H x W x D)	Description	Auxiliary Supply	LP (INR)
Power DPM					
PP44	Power DPM	96 x 96 x 80 mm	Input : 63.5 / 133 / 239.6 / 254V L-N 110 / 230 / 415 / 440V L-L & 1 or 5A Display : 11 mm or 20 mm LED Display Single & 3Ph 3W/4W Network Accuracy Class : 1) KW / KVA - ±0.5% of range 2) KVA _r - ±1% of range Power Range : Max 694.4 MVA for 3 Phase and 333 MVA for 1Phase according to CT/PT Ratio 4 Digit	12 - 48VDC 100 - 250 VAC/DC	4,700
		72 x 144 x 94 mm	Input : 63.5 / 133 / 239.6 / 254V L-N 110 / 230 / 415 / 440V L-L & 1 or 5A Display : 26 mm LED Display Single & 3Ph 3W/4W Network Accuracy Class : 1) KW / KVA - ±0.5% of range 2) KVA _r - ±1% of range Power Range : Max 694.4 MVA for 3 Phase and 333 MVA for 1Phase According to CT/PT Ratio 4 Digit	45...300VAC/DC or 20...40VAC / 20...60VDC	6,335
Power Factor DPM					
PF44	PF DPM	96 x 96 x 80 mm	Input : 63.5 / 133 / 239.6 / 254V L-N 110 / 230 / 415 / 440V L-L & 1 or 5A Display : 11 mm or 20 mm LED Display Single & 3Ph 3W/4W Network Accuracy Class : ±2° 4 Digit	12 - 48VDC 100 - 250 VAC/DC	4,910
		72 x 144 x 94 mm	Input : 63.5 / 133 / 239.6 / 254V L-N 110 / 230 / 415 / 440V L-L & 1 or 5A Display : 26 mm LED Display Single & 3Ph 3W/4W Network Accuracy Class : ±2° 4 Digit	45...300VAC/DC or 20...40VAC / 20...60VDC	6,510
Frequency DPM					
DH10	RISH DPM Hz	48 x 96 x 68 mm	Input : 50...500V Range: 10...500Hz Accuracy : ± 0.5Hz ± 1 Digit 4 Digit	40...300VAC/DC or 20...40VAC / 20...60VDC	1,700
		96 x 96 x 55 mm			
		72 x 144 x 94 mm			4,145

Multi-Function Meters



KMAT		Model	Description	Auxiliary Supply	LP (INR)
LED Meters					
Basic Range					
AV00	RISH CD30	Input : 57.7...300 V L-N, 30A or 60A 2 Line LED Display 4Digit Single Phase Network Accuracy Class : 0.5 Parameters : VAF + THD+ RH + OH + NI + MM + RPM	60 - 280V AC/DC or 20 - 60 V AC/DC	1,500	
	RISH CD60			1,545	
	RISH CD30 - with RS485			2,430	
	RISH CD60 - with RS485			2,475	
	RISH CR12	Input : 100...500 V L-L, 100mA 2 Line LED Display 4Digit Single Ph & 3Ph 3W/4W Network Accuracy Class : 0.5 Parameters : VAF + THD+ RH + OH + NI + MM + RPM		1,500	
	RISH CR12 - with RS485 + 1 Relay			2,590	
VF10	RISH OPTIMA VAF	Input : 100...500 V L-L, 1 / 5A 3 Line LED Display 3Digit Single Ph & 3Ph 3W/4W Network Accuracy Class : 1 Parameters : VAF + RH + OH + NI + MM + RPM	40 - 300V AC/DC or 20-40 V AC / 20-60 V DC	1,845	
DE10	RISH DELTA VAF NX Basic	Input : 100...500 V L-L, 1 / 5A 3 Line LED Display 4 Digit Single Ph & 3Ph 3W/4W Network Accuracy Class : 0.5 Parameters : VAF + RH + OH + NI + MM + RPM + PF	60 - 300V AC/DC or 20 - 60 V AC/DC	1,945	
	RISH DELTA VAF NX Basic + RS485			2,695	
	RISH DELTA VAF NX Basic + 1 Relay			2,480	
	RISH DELTA VAF NX Basic + RS485 + 1Relay			3,020	
DE20	RISH DELTA POWER NX Basic	Input : 100...500 V L-L, 1 / 5A 3 Line LED Display Single Ph & 3Ph 3W/4W Network Accuracy Class : 1 Parameters : VAF + kW + kVAr + kVA + PF + PA + RH + OH + NI + MM + RPM+ DM + MD + NC	60 - 300V AC/DC or 20 - 60 V AC/DC	2,535	
	RISH DELTA POWER NX Basic + RS485			3,290	
	RISH DELTA POWER NX Basic + 1 Relay			3,070	
	RISH DELTA POWER NX Basic + RS485 + 1Relay			3,610	

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Multi-Function Meters



KMAT	Model	Description	Auxiliary Supply	LP (INR)
LED Meters				
Basic Range				
DE30	RISH DELTA ENERGY NX Basic	Input : 100...500 V L-L, 1 / 5A 3 Line LED Display Single Ph & 3Ph 3W/4W Network Accuracy Class : 1, as per 62053-21	60 - 300V AC/DC or 20 - 60 V AC/DC	4,475
	RISH DELTA ENERGY NX Basic + RS485 + 1Relay	Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + RPM + DM + MD + THD + NC		5,550
NEW DE30	RISH DELTA ENERGY NX Basic	Input : 100...500 V L-L, 100mA or 333mV RJ12 Current Input 3 Line LED Display Single Ph & 3Ph 3W/4W Network Accuracy Class : 1, as per 62053-21	60 - 300V AC/DC or 20 - 60 V AC/DC	On Request
	RISH DELTA ENERGY NX Basic + RS485 + 1Relay	Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + RPM + DM + MD + THD + NC		On Request
AC Energy Meter				
EM91	RISH EM 3490SS	Input : 100 / 230 / 415 / 440 V L-L, 1 / 5A Energy Meter with LED Display Single Ph & 3Ph 3W/4W Network Accuracy Class : 1 (Standard) Parameters : kWh	380V AC or 12 - 48V DC / 100-250V AC/DC	5,225
EM92	RISH EM 3490DS	Input : 100 / 230 / 415 V L-L, 1 / 5A Dual Source Energy Meter with LED Display Single Ph & 3Ph 3W/4W Network Accuracy Class : 1 (Standard) Parameters : VAF + kW + kVA + kWh + kVAh + PF + RH + OH + NI		6,560
DC Energy Meter				
EM93	RISH EMDC -6001	Basic Model 6001 4 Channel (without USB RTC & In-built Memory for Data logging) Input Voltage : 10-60 / 61-200 / 201-1000V DC Accuracy Class : 1 Parameters : VA + kW + kWh + RH + OH + NI + DM	60....300V AC/DC or 12 - 70 VDC	9,065
	RISH EMDC -6002	Higher Model 6002 4 Channel (with USB + RTC + In-built Memory for Data logging) Input Voltage : 10-60 / 61-200 / 201-1000V DC Accuracy Class : 1 Parameters : VA + kW + kWh + RH + OH + NI + DM + MD		12,680
EM94	RISH EMDC -6000	Basic Model 6000, 1 Channel Input Voltage : 10-60 / 61-200 / 201-1000V DC Shunt Input : 50-150mV Accuracy Class : 0.5 Parameters : VA + kW + kWh + RH + OH + NI + DM	60 - 300 V AC / DC or 20 – 60 VAC / DC	4,205

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Multi-Function Meters



KMAT	Model	Description	Auxiliary Supply	LP (INR)
LED Meters - Advance Range				
MA4A	RISH MASTER 3440 (Class 1.0/0.5/0.2)	Input : On site Programmable - Voltage - 57.7 - 346 VL-N, Current - 1/5A Single Phase Network Accuracy Class : 1 (Standard) Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD	60- 300V AC/DC or 12-60 V AC/DC or For meter with Ethernet port the aux. supply will be 65...300V AC/DC	9,580
		Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A 3Ph 3W/4W Network Accuracy Class : 1 (Standard) Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD		10,425
MA4S	RISH MASTER 3440 (Class 0.2S)	Input : On site Programmable - Voltage - 57.7 - 346 VL-N, Current - 1/5A Single Phase Network Accuracy Class : 0.2S (Standard) Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD	100-550 VAC/DC or 12-60V AC/DC	12,205
		Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A 3Ph 3W/4W Network Accuracy Class : 0.2S (Standard) Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD		13,050
LCD Meters				
WHOP	RISH EM 1320	Input : On site Programmable - Voltage - 100 - 500 VL-L, Current - 1/5A Single Phase 3Ph 3W/4W Network with LCD Display Accuracy Class : 1 Parameters : kWh + kVAh	60...300VAC/DC or 20...40VAC or 20...60VDC	3,230
	RISH EM 1330	Input : On site Programmable - Voltage - 100 - 500 VL-L, Current - 1/5A Single Phase 3Ph 3W/4W Network with LCD Display Accuracy Class : 1 Parameters : VAF + kW + kVA + kWh + kVAh + PF + PA + RH + OH + NI + MM + NC		3,915
	RISH EM 1340	Input : On site Programmable - Voltage - 100 - 500 VL-L, Current - 1/5A Single Phase 3Ph 3W/4W Network with LCD Display Accuracy Class : 1 Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD		5,890
	RISH EM 2340DS	Input : On site Programmable - Voltage - 100 - 500 VL-L, Current - 1/5A Dual Source Energy Meter with LCD Display Single Phase 3Ph 3W/4W Network Accuracy Class : 1 Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD		4,680

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Multi-Function Meters



KMAT	Model	Description	Auxiliary Supply	LP (INR)
LCD Meters				
MA3L	RISH LM 1340	Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A Big LCD Display, 3 Line 5 Digits 3Ph 3W/4W Network Accuracy Class : 0.5S (Standard) Energy Parameters - Individual phasewise and system Energy Measurement as per IEC 62053-22 / 23 and IEC 61557-12 Parameters : VAF + kW + kVA + kVAh + kVAh + PF + DPF + PA + RH + OH + NI + MM + NC + THD + RPM + IH + TAR + UB	100-550V AC/DC or 12-60V AC/DC	9,105
MA4L	RISH LM 1360	Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A Big LCD Display 3Ph 3W/4W Network Accuracy Class : 0.5S (Standard) Parameters : VAF + kW + kVA + kVAh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + RPM + IH	100-550V AC/DC or 12-60V AC/DC	10,160
		Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 100mA over RJ12 Big LCD Display 3Ph 3W/4W Network Accuracy Class : 1 (Standard) Parameters : VAF + kW + kVA + kVAh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + RPM + IH		On Request
MA8L	RISH LM 1380	Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A Big LCD Display 3Ph 3W/4W Network Accuracy Class : 0.2S, Energy Parameters - Individual phasewise and system Energy Measurement as per IEC 62053-22 / 23 and IEC 61557-12 %THD and individual Harmonics Measurement (upto 63rd Harmonic) Parameters : VAF + kW + kVA + kVAh + kVAh + PF + DPF + PA + RH + OH + NI + MM + NC + THD + RPM + IH + TAR + UB RS485 Modbus communication	100-550V AC/DC or 12-60V AC/DC	
	Optional Modules	Ethernet Interface (MODBUS TCP/IP Protocol)		
		RS485 + Ethernet Interface (MODBUS TCP/IP Protocol) + 4 Digital Inputs + 2 Digital Outputs		
		RS485 + 4 Digital Inputs + 2 Digital Outputs		
		Ethernet Interface (MODBUS TCP/IP Protocol) + 4 Digital Inputs + 2 Digital Outputs		
		Ethernet Interface (BACnet Protocol)		

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Multi-Function Meters



KMAT	Model	Description	Auxiliary Supply	LP (INR)
LCD Meters -MultiLoad Monitor				
MLM1	RISH ML 1400 (Class 1)	Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 100mA over RJ12 Big LCD Display 1Ph 2W, 3Ph 3W/4W Network	100-550V AC/DC	On Request
	RISH ML 1410 (Class 0.5s)	Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + RPM + IH + RCM + TAR + 3HL RS485 (Modbus RTU) - 2 Relay		
	Optional Modules	RS485 (Modbus RTU) - 2 Relay - USB		
		RS485 (Modbus RTU) - 4 Relay (USB not possible)		
		Ethernet (Modbus TCP/IP) (USB & Relay not possible)		
		Data-logging		
		QuickFix Module - RJ01 - 3x CTs with 1A to 100mA (via RJ12)		
		QuickFix Module - RJ05 - 3x CTs with 5A to 100mA (via RJ12)		
		QuickFix Module - RC30 - 3x CBCT to RJ12		
		SPAR-SA00-2279 : RJ12 Split Cable		



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Multi-Function Meters



KMAT	Model	Description	Auxiliary Supply	LP (INR)
Touch Screen Meters				
MA4I	RISH MASTER 3440i (Class-1.0/0.5/0.2)	Input : On site Programmable - Voltage - 57.7 - 346 VL-N, Current - 1/5A Single Phase Network Accuracy Class : 1 (Standard) Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD	60- 300V AC/DC or 12-60 V AC/DC or For meter with Ethernet port the aux. supply will be 65...300V AC/DC	12,725
		Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A 3Ph 3W/4W Network Accuracy Class : 1 (Standard) Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD		13,385
MA4S	RISH MASTER 3440i (Class-0.2S)	Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A 3Ph 3W/4W Network With Data logging Accuracy Class : 0.2s (Standard) Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + IH + RTC Output - RS485 - 2 Pulse Output	100-550V AC/DC or 12-60V AC/DC	20,720
	RISH MASTER 3440i DL (Class-0.2S)	Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A 3Ph 3W/4W Network With Data logging Accuracy Class : 0.2s (Standard) Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + IH + RTC Output - RS485 - 1 Pulse Output - 2 Analog Output		22,965
		Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A 3Ph 3W/4W Network With Data logging Accuracy Class : 0.2s (Standard) Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + IH + RTC Output - Ethernet (MODBUS TCP/IP)		26,500
Power Quality Monitor (Touch Screen)				
PA00	RISH PQM	Input : On site Programmable - Voltage - 100 - 500 VL-L, Current - 1/5A 3Ph 3W/4W Network Accuracy Class : 0.5s Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + IH + RTC + SG + SW + OC	60-300V AC/DC	19,290
Smart Demand Controller (Touch Screen)				
DM82	RISH DMC i	Input : On site Programmable - Voltage - 100 - 500 VL-L, Current - 1/5A 3Ph 3W/4W Network or 1 Phase Accuracy Class : 0.5s , 4 Relay output Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + IH + RTC	60-300V AC/DC	29,140

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Multi-Function Meters



KMAT	Model	Description	Auxiliary Supply	LP (INR)
DIN Rail AC Energy Meters (LCD Screen)				
ED Series – Direct Connected				
NEW ED11	RISH ED1101 2TS	1U, 1Ph 2W, 230V, 45A - 1 SO + 1 TI	Self Powered	2,260
	RISH ED1111 Mod	1U, 1Ph 2W, 230V, 45A - RS 485 + 1 SO		2,470
	RISH ED1111 MB	1U, 1Ph 2W, 230V, 45A - Mbus + 1 SO		On Request
NEW ED21	RISH ED2101 2TS	2U, 1Ph 2W, 230V, 100A - 2 SO + 1 TI	Self Powered	3,045
	RISH ED2111 Mod	2U, 1Ph 2W, 230V, 100A - RS 485 + 2 SO + 1 TI		3,360
	RISH ED2111 MB	2U, 1Ph 2W, 230V, 100A - Mbus + 2 SO + 1 TI		On Request
NEW ED43	RISH ED4301 4TS	4U, 3Ph 3W/4W, 400V L-L, 100A - 2 SO + 2 TI	Self Powered	7,035
	RISH ED4311 Mod	4U, 3Ph 3W/4W, 400V L-L, 100A - RS 485 + 2 SO + 2 TI		7,350
	RISH ED4311 MB	4U, 3Ph 3W/4W, 400V L-L, 100A - Mbus + 2 SO + 2 TI		On Request
EC Series – CT Operated				
NEW EC11	RISH EC1101 2TS	1U, 1Ph 2W, 230V, 1A/5A - 1 SO + 1 TI	Self Powered	2,150
	RISH EC1111 Mod	1U, 1Ph 2W, 230V, 1A/5A - RS 485 + 1 SO		2,350
	RISH EC1111 MB	1U, 1Ph 2W, 230V, 1A/5A - Mbus + 1 SO		On Request
NEW EC21	RISH EC2101 2TS	2U, 1Ph 2W, 230V, 1A/5A - 2 SO + 1 TI	Self Powered	2,900
	RISH EC2111 Mod	2U, 1Ph 2W, 230V, 1A/5A - RS 485 + 2 SO + 1 TI		3,200
	RISH EC2111 MB	2U, 1Ph 2W, 230V, 1A/5A - Mbus + 2 SO + 1 TI		On Request
MD00	RISH MD 1340	Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A Big LCD Display, 3 Line 4 Digits 3Ph 3W/4W Network Accuracy Class : 0.5S (Standard) Communication - RS 485 Modbus communication Energy Parameters - Individual phasewise and system Energy Measurement as per IEC 62053-22 / 23 and IEC 61557-12 Parameters : VAF + kW + kVAr + kVA + kWh + kVAh + PF + DPF + PA + RH + OH + NI + MM + NC + THD + RPM + IH + TAR + UB	100-550V AC/DC or 20-60 AC/DC	7,795

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Multi-Function Meters

KMAT	Model	Description	Auxiliary Supply	LP (INR)
ER Series – RJ12 CT (100mA) Operated				
NEW ER11	RISH ER1101 2TS	1U, 1Ph 2W, 230V, 100mA - 1 SO + 1 TI	Self Powered	2,150
	RISH ER1111 Mod	1U, 1Ph 2W, 230V, 100mA - RS 485 + 1 SO		2,350
	RISH ER1111 MB	1U, 1Ph 2W, 230V, 100mA - Mbus + 1 SO		On Request
NEW ER21	RISH ER2101 2TS	2U, 1Ph 2W, 230V, 100mA - 2 SO + 1 TI	Self Powered	2,900
	RISH ER2111 Mod	2U, 1Ph 2W, 230V, 100mA - RS 485 + 2 SO + 1 TI		3,200
	RISH ER2111 MB	2U, 1Ph 2W, 230V, 100mA - Mbus + 2 SO + 1 TI		On Request
MD00	RISH MD 1340	Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 100mA over RJ12 Big LCD Display, 3 Line 4 Digits 3Ph 3W/4W Network Accuracy Class : 0.5S Communication - RS 485 Modbus communication Energy Parameters - Individual phasewise and system Energy Measurement as per IEC 62053-22 / 23 and IEC 61557-12 Parameters : VAF + kW + kVA + kWh + kVAh + PF + DPF + PA + RH + OH + NI + MM + NC + THD + RPM + IH + TAR + UB	100-550V AC/DC	7,015
DIN Rail DC Energy Meters (LCD Screen)				
NEW DC211	RISH DC2111 Mod	1 Channel Input Voltage : 100-1000V DC Shunt Input : 50-150mV Accuracy Class : 1.0 as per IEC 62053-41 or Class B as per EN 50470-4 Parameters : VA + kW + kWh + RH + OH + DM	60 - 300 V AC/DC or 20 - 60 VAC/DC	4,500
Note : MID variant available for DIN Rail AC Energy Meters				



Multi-Function Meters

Optional Accessories for Multi-function Meters*

1	Accuracy class 0.5	RM 3440, RM 3440i, EM 3490SS, EM 3490DS	1,450
2	Accuracy class 0.2	RM 3440, RM 3440i	2,405
3	Accuracy class 0.2s	LM 1340/1360, RISH MD1340 (1/5A)	2,625
4	RS485 (Modbus)	EM1320, EM1330, EM1340, EM3490SS, EM3490DS, EM2340DS, PQM, DMCI, RISH EMDC 6001/2, RISH LM 1340	1,155
5	RS485 + 2 Relay / Pulse	RM 3440, RM 3440i, LM 1360, PQM	1,155
6	RS485 + 2 Relay / Pulse	RISH EM DC 6000	1,575
7	RS485 + 1 Relay / Pulse + 2 Analog	RM 3440, RM 3440i	3,005
8	RS 485 MODBUS RTU + 2 Digital Input + 2 Digital Output	RISH LM 1340 (Available with Accuracy Class 0.2S only)	2,430
9	1 Digital Input + 1 SO	RISH MD1340	600
10	2 Digital Input + 2 Relay output	RISH MD1340	1,500
11	1 Relay o/p (Pulse/Limit)	EM1320, EM 1330, EM 1340, EM 2340DS, EM 3490SS, EM 3490DS, Optima VAF	1,065
12	2 Pulse /Relay	EM1330, EM1340, EM2340DS, EMDC 6001/2	1,450
13	Ethernet Interface (MODBUS TCP/IP Protocol)	RM 3440, RM 3440i, PQM, LM 1360, LM 1340	3,900
14	Ethernet MODBUS TCP/IP + 2 Digital Input + 2 Digital Output	RISH LM 1340 (Available with Accuracy Class 0.2S only)	4,985
15	Terminal Sealing	3490SS	105
16	Converter 1	RS 485 to RS 232 Converter (Self Powered)	2,405
17	Converter 2	RS 485 to USB Converter (Self Powered)	5,775
18	4 Relay	RISH EM DC 6001/2	2,405
19	Data logging + Ethernet + RTC	LM 1360	4,635
20	Data logging + USB + RTC + RS 485 + 2 Relay	LM 1360 / EMDC 6000	3,530
21	BACNet	LM 1360	On Request
22	IP 65 Kit	For 96x96 size models	130
23	Side mounting clamp	OPTIMA VAF / DELTA Series / LM 13xx Series / EM 13xx Series / EM 2340	20
24	SPAR-SD00-0660	DIN RAIL MOUNTING KIT FOR MFM - Applicable for 96 x 96 Products	240
25	Test Certificates (Hard Copy)	Product Test certificates are available on chargeable basis	100

*Before selecting any single or multiple optional accessories / outputs please refer to the respective datasheets to check feasibility

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Multi-Function Meters



List of abbreviations

VAF - Voltage Current & Frequency

PA - Phase Angle

THD - % Total Harmonics distortion

kW - Active Power

RH - Run Hour

IH - Individual Harmonics

kVAr - Reactive Power

OH - On Hour

RTC - Real time clock

kVA - Apparent Power

NI - No. of interruptions

SG - Sag

kWh - Active Energy

MM - Min / Max Parameters

SW - Swell

kVArh - Reactive energy

DM - Demand

OC - Over Current

kVAh - Apparent Energy

MD - Max Demand

GE - Generator Event

PF - Power Factor

NC - Neutral Current

RCM - Residual Current Monitoring

TAR - Tariff

3HL - 3 Phase Health Monitoring

DPF - Distorted Power Factor (Over Modbus)

UB - Unbalance (Voltage and Current - Over Modbus)



Electrical Transducers



KMAT	Model	Description	Auxiliary Supply	LP (INR)
Programmable RISH CON Series				
CM41	RISH CON I	Type : Current (TRMS) Input : 1...5A Output : 0...20mA / 4...20mA OR 0...10V Accuracy Class : 0.2	60...300VAC/DC or 24...60VAC/DC	4,115
	RISH CON V	Type : Voltage (TRMS) Input : 57...500V Output : 0...20mA / 4...20mA OR 0...10V Accuracy Class : 0.2		4,115
CF41	RISH CON Hz	Type : Frequency (TRMS) Input : 45...55 / 48...52 / 55...65 / 45...65 Hz (57...500V) Output : 0...20mA / 4...20mA OR 0...10V Accuracy Class : 0.2		4,575
CP41	RISH CON P	Type : Power / Power Factor (TRMS) Input : 100...500V LL 1...5A Output : 0...20mA / 4...20mA OR 0...10V / -20mA...0...+20mA / -10V...0...+10V Accuracy Class : 0.2, Class 0.5 for PF and Phase angle		8,815
CM44	RISH CON M+	Type : Multi-transducer (TRMS) Input : 100 to 600V L-L, 1 or 5A Output : Analog Outputs 0...20mA OR 0...10V & 0 / 2 Relay (M-22 M-40) Communication Port : USB Accuracy Class : 0.2 for Voltage & Current Class : 0.2 for Frequency Class : 0.5 for Power & Power Factor Active Energy Class 0.5s as per 62053-22	85...285V AC/DC	16,410
		Type : Multi-transducer (TRMS) Input : 100 to 600V L-L, 1 or 5A Output : Analog Outputs 0...20mA OR 0...10V & 2 Relay (M-42) Communication Port : USB Accuracy Class : 0.2 for Voltage & Current Class : 0.2 for Frequency Class : 0.5 for Power & Power Factor Active Energy Class 0.5s as per 62053-22		17,065



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Electrical Transducers



KMAT	Model	Description	Auxiliary Supply	LP (INR)
Non - Programmable RISH CON Series				
CM22	RISH CON CA	Type : Current AVG (Single input Single output) Input : 0...1 / 0...5A Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0...5V / 0...10V Accuracy Class : 0.2	40...300VAC/DC or 24...60VAC/DC	2,830
CM21		Type : Current TRMS (Single input Single output) Input : 0...1 / 0...5A Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0...5V / 0...10V Accuracy Class : 0.2		3,770
CM22	RISH CON CV	Type : Voltage AVG (Single input Single output) Input : 0...63.5V to 0...500V Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0...5V / 0...10V Accuracy Class : 0.2		2,830
CM21		Type : Voltage TRMS (Single input Single output) Input : 0...63.5V to 0...500V Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0...5V / 0...10V Accuracy Class : 0.2		3,770
CM23	RISH CON CA	Type : Current - AVG (Single input Dual output) Input Range : 0...1 / 0...5A Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0...5V / 0...10V Accuracy Class : 0.2	60...300 VAC/DC or 20...40VAC / 20...60VDC	4,135
	RISH CON CV	Type : Voltage - AVG (Single input Dual output) Input Range : 0-63.5 / 0-100 / 0-110 / 0-150 / 0-220 / 0-230 / 0-240 / 0-250 / 0-300 / 0-330 / 0-415 / 0-450 / 0-500V AC Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0...5V / 0...10V Accuracy Class : 0.2		



Electrical Transducers



KMAT	Model	Description	Auxiliary Supply	LP (INR)
Non - Programmable RISH CON Series				
CA11	RISH CON I11	Type : Current AVG (Single input Single output) Input : 0...1 / 0...5A Output : 0...20mA / 0...10mA / 0...5mA / 4...20mA / 0...10V Accuracy Class : 0.5	Self Powered 12-30VDC for 4...20mA output	2,535
CW50	RISH CW Series	Type : Open Loop Current Transducer (AC/DC Input) Input : $\pm 500A$, Output : $\pm 4V$, Accuracy : 1.0%	Bipolar Aux: $\pm 15V$	On Request
		Type : Open Loop Current Transducer (AC/DC Input) Input : $\pm 600A$, Output : $\pm 4V$, Accuracy : 1.0%		On Request
		Type : Open Loop Current Transducer (AC/DC Input) Input : $\pm 850A$, Output : $\pm 4V$, Accuracy : 1.0%		On Request
		Type : Open Loop Current Transducer (AC/DC Input) Input : $\pm 1000A$, Output : $\pm 4V$, Accuracy : 1.0%		On Request
		Type : Open Loop Current Transducer (AC/DC Input) Input : $\pm 1200A$, Output : $\pm 4V$, Accuracy : 1.0%		On Request
		Type : Open Loop Current Transducer (AC/DC Input) Input : $\pm 1500A$, Output : $\pm 4V$, Accuracy : 1.0%		On Request

Optional Accessories for Electrical Transducers		
400Hz	RISH CON P	560
RS485	RISH CON V, RISH CON I, RISH CON Hz	250
	RISH CON P, RISH CON M+	1,155
Display Module	RISH CON P	780
	RISH CON V, RISH CON I, RISH CON Hz	250
Dual Output	RISH CON V, RISH CON I, RISH CON Hz, RISH CON P	700
Non Standard Input / Output	RISH CON CA / CV	970
SPAR-SD00-0229	USB Cable for Configuration - RISH CON V, RISH CON I, RISH CON Hz, RISH CON P	1,260
SPAR-SD00-0870	USB Cable for Configuration - RISH CON M+	260
Test Certificates (Hard Copy)	Product Test certificates are available on chargeable basis	100

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KMAT	Model	Description	Auxiliary Supply	LP (INR)
CT with Inbuilt Transducers				
CCT1	RISH CTDUCER 70 x 30 mm	Type : Current TRMS (Single input Single output) Input : 0 - 50A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%	24V DC $\pm$ 15%	4,090
		Type : Current AVG (Single input Single output) Input : 0 - 50A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,475
		Type : Current TRMS (Single input Single output) Input : 0 - 100A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		4,155
		Type : Current AVG (Single input Single output) Input : 0 - 100A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,540
		Type : Current TRMS (Single input Single output) Input : 0 - 150A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		4,215
		Type : Current AVG (Single input Single output) Input : 0 - 150A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,610
		Type : Current TRMS (Single input Single output) Input : 0 - 200A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		4,280
		Type : Current AVG (Single input Single output) Input : 0 - 200A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,665
		Type : Current TRMS (Single input Single output) Input : 0 - 250A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		4,340
		Type : Current AVG (Single input Single output) Input : 0 - 250A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,725
		Type : Current TRMS (Single input Single output) Input : 0 - 300A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		4,400
		Type : Current AVG (Single input Single output) Input : 0 - 300A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,785



KMAT	Model	Description	Auxiliary Supply	LP (INR)
CT with Inbuilt Transducers				
CCT1	RISH CTDUCER 90 x 40 mm	Type : Current TRMS (Single input Single output) Input : 0 - 50A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%	24V DC $\pm$ 15%	4,195
		Type : Current AVG (Single input Single output) Input : 0 - 50A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,580
		Type : Current TRMS (Single input Single output) Input : 0 - 100A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		4,260
		Type : Current AVG (Single input Single output) Input : 0 - 100A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,645
		Type : Current TRMS (Single input Single output) Input : 0 - 150A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		4,320
		Type : Current AVG (Single input Single output) Input : 0 - 150A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,715
		Type : Current TRMS (Single input Single output) Input : 0 - 200A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		4,380
		Type : Current AVG (Single input Single output) Input : 0 - 200A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,775
		Type : Current TRMS (Single input Single output) Input : 0 - 250A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		4,435
		Type : Current AVG (Single input Single output) Input : 0 - 250A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,835
		Type : Current TRMS (Single input Single output) Input : 0 - 300A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		4,500
		Type : Current AVG (Single input Single output) Input : 0 - 300A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,900
		Type : Current TRMS (Single input Single output) Input : 0 - 400A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		4,570
		Type : Current AVG (Single input Single output) Input : 0 - 400A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,965
		Type : Current TRMS (Single input Single output) Input : 0 - 500A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		4,620
		Type : Current AVG (Single input Single output) Input : 0 - 500A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		3,025
		Type : Current TRMS (Single input Single output) Input : 0 - 600A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		4,685
		Type : Current AVG (Single input Single output) Input : 0 - 600A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		3,085
		Type : Current TRMS (Single input Single output) Input : 0 - 750A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		4,785
		Type : Current AVG (Single input Single output) Input : 0 - 750A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		3,180

Optional Accessories for CT with inbuilt Transducers		
Power Supply	230 VAC -50 / +15%, 50/60Hz (90x40 Size only)	2,115
Accessory	Din Rail Mounting Kit	75
Test Certificates (Hard Copy)	Product Test certificates are available on chargeable basis	100



KMAT	Model	Description	Auxiliary Supply	LP (INR)
Process Transducers				
PI01	RISH PI 101	Type : Programmable Single output DC Isolator 1 Input-1 Output Input Range - DC Current :0...20 / 0...10 / 4...20 / 0...24 mA DC DC Voltage : 0...12 / 0...10 / 0...5 / 1...5 VDC, Output - DC Current : 0...10mA / 0...20mA / 2...10mA / 4...20mA DC Voltage : 0...5 / 1...5 / 0...10 / 2...10V Accuracy Class : 0.2	60...300 VAC/DC or 20...40VAC / 20...60VDC	2,315
PI02	RISH PI 102	Type : Programmable Dual output DC Isolator 1 Input-2 Output Input Range - DC Current :0...20 / 0...10 / 4...20 / 0...24 mA DC DC Voltage : 0...12 / 0...10 / 0...5 / 1...5 VDC, Output - DC Current : 0...10mA / 0...20mA / 2...10mA / 4...20mA DC Voltage : 0...5 / 1...5 / 0...10 / 2...10V Accuracy Class : 0.2		3,470
PI02	RISH PI 102 with Loop powered output	Type : Programmable Dual output DC Isolator 1 Input-2 Output Input Range - DC Current :0...20 / 0...10 / 4...20 / 0...24 mA DC DC Voltage : 0...12 / 0...10 / 0...5 / 1...5 VDC, Output - DC Current : 0...10mA / 0...20mA / 2...10mA / 4...20mA DC Voltage : 0...5 / 1...5 / 0...10 / 2...10V Accuracy Class : 0.2, Transmitter Power Supply 24VDC(+/- 15%)	60...300 VAC/DC or 20...40VAC / 20...60VDC	4,050
SI01	RISH CON SI-101	Type : Powerful DC Signal Isolator 1 Input-1 Output Input - DC Current : 0...20mA / 4...20mA / 1...5mA DC Voltage : 0...10V / 2...10V / 1...5V Output - DC Current : 0...20mA / 4...20mA DC Voltage : 0...10V / 2...10V Accuracy Class : 0.2	24...60V AC/DC or 60 ...300V AC/DC	2,295
SI02	RISH CON SI-102	Type : Powerful DC Signal Isolator 1 Input-2 Output Input - DC Current : 0...20mA / 4...20mA / 1...5mA DC Voltage : 0...10V / 2...10V / 1...5V Output - DC Current : 0...20mA / 4...20mA DC Voltage : 0...10V / 2...10V Accuracy Class : 0.2		3,440

KMAT	Model	Description	Auxiliary Supply	LP (INR)
Process Transducers				
TV08 - S17 ET08 - E8	TV 808	Type : DC Isolator 1 Input-1 Output (S17 or E8 Housing) Input - 0.1mA...20mA & 4...20mA & 0.06V...40V Output - DC Current : 0...20mA, 4...20mA DC Voltage : 0...5V, 0...10V Accuracy Class : 0.2 for S17Housing, Class 0.5 for E8 Housing	24...60V AC/DC or 85 ...230V AC/DC	2,890
	TV 808	Type : DC Isolator 1 Input-2 Output (S17 or E8 Housing) Input - 0.1mA...20mA & 4...20mA & 0.06V...40V Output - DC Current : 0...20mA, 4...20mA DC Voltage : 0...5V, 0...10V Accuracy Class : 0.2 for S17Housing, Class 0.5 for E8 Housing		4,055
	TV 808	Type : DC Isolator 2 Input-2 Output (S17 Housing) Input - 0.1mA...20mA & 4...20mA & 0.06V...40V Output - DC Current : 0...20mA, 4...20mA DC Voltage : 0...5V, 0...10V Accuracy Class : 0.2 for S17 Housing		4,640
Tap Position Transducers				
CT25	RISH CON TPT	Type : Tap Position Input - 0-17kOhm, 0-18kOhm, 0-20kOhm, 0-25kOhm Output - DC Current : 0...20mA / 4...20mA DC Voltage : 0...10V / 2...10V Accuracy Class : 0.2	24...60V AC/DC or 60 ...300V AC/DC	5,325
	RISH CON TPT	Type : Tap Position with display Input - 0-17kOhm, 0-18kOhm, 0-20kOhm, 0-25kOhm Output - DC Current : 0...20mA / 4...20mA DC Voltage : 0...10V / 2...10V Accuracy Class : 0.2		6,375
	RISH CON TPT (96x96)	Type : Tap Position with display (96 X 96) Input - 0-17kOhm, 0-18kOhm, 0-20kOhm, 0-25kOhm Output - DC Current : 0...20mA / 4...20mA DC Voltage : 0...10V / 2...10V Accuracy Class : 0.2		5,855
Universal Transmitter				
V604	RISH DUCER V604	Type : Programmable Transmitter Input - DC Voltage/Current / Resistance / Temp. etc. Output - DC Current : 0...20mA / 4...20mA DC Voltage : 0...5V / 1...5V / 0...10V / 2...10V Accuracy Class : 0.2	24...60V AC/DC or 85 ...230V AC/DC	8,970

KMAT	Model	Description	Auxiliary Supply	LP (INR)
Temperature Transmitter				
PT02	PT 602	Type : 1 Channel Temperature transmitter (1 I/P / 1 O/P) Input - Temperature (PT100) Output - DC Current : 0...20mA / 4...20mA DC Voltage : 0...10V Accuracy Class : 0.5	24...60V AC/DC or 85 ...230V AC/DC	6,560
		Type : 2 Channel Temperature transmitter (2 I/P / 2 O/P) Input - Temperature (PT100) Output - DC Current : 0...20mA / 4...20mA DC Voltage : 0...10V Accuracy Class : 0.5		8,220
Optional Accessories for Process Transducers				
RS 485		RISH CON TPT 96 X 96		1,155
Non Standard Input / Output		RISH DUCER TV808 and RISH CON SI 101 / SI 102		780
PK60-P100000000000		Programming RS232 & Configuration Adapter + Cable for RISH DUCER V604		1,260
SPAR-SD00-0781		Programming Cable for Configuration of RISH CON TPT (96 x 96)		
SPAR-SD00-0229		Programming Cable for Configuration of RISH CON TPT (DIN)		
Test Certificates (Hard Copy)		Product Test certificates are available on chargeable basis		100

Protection Relays

Analog Protection Relays



KMAT	Model	Description	Network	LP (INR)
Single Phase Preventer Relay				
SP10	RISH SPPR	Single Phase Preventer Relay Input Voltage - 150 to 550VL-L 1Relay NE	3Ø3W	670
Current Relay				
PR10	RISH RELAY AR	Input-1A to 5A, 50Hz,60Hz, 1 Relay Relay Configuration - NE/ND Auxiliary Supply - 60 - 300V AC/DC	1PH	1,760
			3PH	1,925
Note - Aux supply 180-440V AC/DC will be available on request (RISH RELAY AR)				
Voltage Relay				
PR10	RISH RELAY VR	Input- 58-138VLN / 220-254VLN, 50Hz/60Hz, 1 Relay Relay Configuration - NE/ND	1PH	1,270
		Input- 110-240VLL / 381-415VLL / 415-480VLL, 50Hz/60Hz, 1 Relay, Relay Configuration - NE/ND	3PH	1,440
Optional Accessories				
2 Relay		For RISH RELAY AR , VR		170

Note-
NE - Normally Energized
ND - Normally Denergized

KMAT	Model	Description	Auxiliary Supply	LP (INR)
Earth Leakage Relay - RISH ELPR				
ELR2	RISH ELPR	Smart	60 - 300 AC / DC or 20 - 60 DC / 20 - 40 AC	1,765
		Smart With Alarm Relay Output		2,075
		Smart+ With Alarm Relay Output		2,285

\$ For productwise approbations, please contact local sales office

Protection Relays

Advanced Digital Monitoring Relays



KMAT	Model	Description	Auxiliary Supply	LP (INR)
TR10	RISH RELAY I	Prog. 1PH Current 1-5A 1CO	60-300V AC/DC or 20-60V DC / 20-40V AC	3,165
		Prog. 3PH Current 1-5A 1CO		3,215
	RISH RELAY V/Hz	Prog. 1PH & 3PH V 100-600V ACL-L 1CO		2,885
	RISH RELAY V	Prog. 1PH & 3PH V 100-600V ACL-L 1CO		2,345
ELR1	RISH ELR (DIN & 96x96mm)	ELR SINGLE CBCT 1CO		2,765
	RISH ELR+ (DIN & 96x96mm)	ELR+ Dual CBCT 1CO+1CO		3,845
	RISH ELR VI(NE) (DIN & 96x96mm)	ELR VI(NE) CBCT+E to N V+I 1CO+1CO		4,200
	RISH ELR VI (DIN & 96x96mm)	ELR VI CBCT+V+I 1CO+1CO		4,150
Optional Accessories				
1CO+1CO / 2CO		For RISH RELAY I, RISH RELAY V/Hz, RISH RELAY V, RISH ELR		60
SPAR-SD00-022 : PRKAB FOR RELAY (MICRO USB TO USB CABLE)				1,260



\$ For productwise approbations, please contact local sales office

CBCT

Round CBCT



Product Code	Model Name	Turns Ratio	Primary Current	LP (INR)
CB08-0101000000000	RISH CBCT 38	600/1	30mA to 30A	865
CB09-0101000000000	RISH CBCT 57	600/1	30mA to 30A	1,050
CB10-0101000000000	RISH CBCT 70	600/1	30mA to 30A	1,325
CB11-0101000000000	RISH CBCT 120	600/1	30mA to 30A	2,760
CB12-0101000000000	RISH CBCT 210	600/1	30mA to 30A	3,750
CB05-0101001900000	RISH CBCT 310 Tape Wound	600/1	30mA to 30A	4,965
CB08-0101002000000	RISH CBCT 38B	600/1	30mA to 30A	725
CB09-0101002000000	RISH CBCT 57B	600/1	30mA to 30A	935
CB10-0101002000000	RISH CBCT 70B	600/1	30mA to 30A	1,005
CB11-0101002000000	RISH CBCT 120B	600/1	30mA to 30A	1,530
CB12-0101000100000	RISH CBCT 210B	600/1	30mA to 30A	1,810
CB05-0101002000000	RISH CBCT 310B Tape Wound	600/1	30mA to 30A	3,180



\$ For productwise approbations, please contact local sales office

Product Code	Model Name	Turns Ratio	Primary Current	LP (INR)
CB05-0101002900000	RISH CBCT 280 X 115	600/1	30mA to 30A	Price On Request
CB05-0101001800000	RISH CBCT 300 X 300	600/1	30mA to 30A	
CB05-0101000700000	RISH CBCT 350 X 350	600/1	30mA to 30A	
CB05-0101000900000	RISH CBCT 350 X 450	600/1	30mA to 30A	
CB05-0101001000000	RISH CBCT 400 X 300	600/1	30mA to 30A	
CB05-0101001100000	RISH CBCT 400 X 400	600/1	30mA to 30A	
CB05-0101001200000	RISH CBCT 500 X 150	600/1	30mA to 30A	
CB05-0101001300000	RISH CBCT 500 X 400	600/1	30mA to 30A	
CB05-0101000800000	RISH CBCT 500 X 500	600/1	30mA to 30A	
CB05-0101001400000	RISH CBCT 500 X 600	600/1	30mA to 30A	
CB05-0101001500000	RISH CBCT 600 X 400	600/1	30mA to 30A	
CB05-0101001600000	RISH CBCT 660 X 460	600/1	30mA to 30A	
CB05-0101001700000	RISH CBCT 700 X 400	600/1	30mA to 30A	
CB05-0101002600000	RISH CBCT 700 X 500	600/1	30mA to 30A	
CB05-0101002700000	RISH CBCT 500 X 200	600/1	30mA to 30A	
CB05-0101002800000	RISH CBCT 400 X 200	600/1	30mA to 30A	
CB05-0101002100000	RISH CBCT 700 X 600	600/1	30mA to 30A	
CB05-0101002200000	RISH CBCT 750 X 500	600/1	30mA to 30A	
CB05-0101002300000	RISH CBCT 750 X 700	600/1	30mA to 30A	
CB05-0101002400000	RISH CBCT 900 X 700	600/1	30mA to 30A	
CB05-0101002500000	RISH CBCT 900 X 900	600/1	30mA to 30A	

Note

1. Turns Ratio 1000/1 available on request
2. RISH CBCT 38 , 57 , 70, 120 , 210 & 310 are available with +/- 3% accuracy
3. RISH CBCT 38B , 57B , 70B, 120B , 210B , 310B and all other rectangular CBCT's are available with +/- 15% accuracy
4. CBCTs with Spring loaded connector are available on request for RISH CBCT 38, 57, 70, 120 & 210.
5. Customized rectangular CBCT with case and terminal available on request.

Static Relays



KMAT	Model	Description	Auxiliary Supply	LP (INR)	
AC Current Relay Input - 2 / 3 / 4 / 6 / 8 / 10A or 1A / 5A CT Operated					
LA21	252 - PAU	Single Phase Under Current	AC : 120 / 230 / 240 / 400 / 415V	1,525	
	252 - PAO	Single Phase Over Current			
LA31	253 - PAD	Single Phase Combined Under/Over Current		3,000	
	253 - PAV	Three Phase Under Current		3,620	
	253 - PAP	Three Phase Over Current		3,620	
Optional Accessories					
Extra charges for DC Aux : 12 / 24 / 48 / 110V				125	
Extra charges for any non-standard settings other than Datasheet					
AC Voltage Relay With Adjustable Differential Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V					
LK21	252 - PVU	Single Phase Under Voltage	Self Powered	2,000	
	252 - PVO	Single Phase Over Voltage			
LK31	253 - PVB	Single Phase Combined Under/Over Voltage.		3,000	
LK21	252 - PVV	3 Phase 4 Wire Under Voltage		2,000	
	252 - PVP	3 Phase 4 Wire Over Voltage			
LK31	253 - PVE	3 Phase 4 Wire Combined Under/Over Voltage		3,000	
LK21	252 - PVK	3 Phase 3 Wire Under Voltage		2,000	
	252 - PVA	3 Phase 3 Wire Over Voltage			
LK31	253 - PVM	3 Phase 3 Wire Combined Under/Over Voltage		3,000	
Optional Accessories					
Extra charges for Aux supply / Time Delay				125	

\$ For productwise approbations, please contact local sales office

Static Relays



KMAT	Model	Description	Auxiliary Supply	LP (INR)
AC Voltage Relay With Adjustable Time Delay Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V				
LJ21	252 - PVZ	Single Phase Under Voltage	Self Powered	2,000
	252 - PVH	Single Phase Over Voltage		
	252 - PVX	3 Phase 4 Wire Under Voltage		
	252 - PVS	3 Phase 4 Wire Over Voltage		
	252 - PVJ	3 Phase 3 Wire Under Voltage		
	252 - PVC	3 Phase 3 Wire Over Voltage		
Optional Accessory				
Extra charges for Aux supply				125
Frequency Relay With Adjustable Time Delay Range - 40/60Hz, 50/70Hz, 360/440Hz Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V				
LF21	252 - PHU	Under Frequency	Self Powered	1,755
	252 - PHO	Over Frequency		
LF31	253 - PHD	Combined Under/Over Frequency		
Optional Accessory				
Extra charges for Aux supply				125
Combined Under / Over Voltage & Frequency Range - 40/60Hz, 50/75Hz, 360/440Hz Input - 120 / 240V				
LC61	256 - PHV	Single Phase Combined Under/Over Voltage and Frequency	Self Powered	6,035
Phase Sequence & Phase Failure Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V				
LP21	252 - PVR	3 Phase 3 Wire or 4 Wire	Self Powered	1,385
Thermistor Trip Relay Range : Trip 2500-3500 Ohm Reset :1500 -2300 Ohm				
LT21	252 - PMT	Automatic Reset	AC : 110 / 120 / 220 / 230 / 240V	1,675
	252 - PMM	Manual Reset		

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KMAT	Model	Description	Auxiliary Supply	LP (INR)
Synchro Check Relay (Paralleling) Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V				
LS61	256 - PLL	1 Generator 1 Bus or 2 Generator Systems	Self Powered	3,235
	256 - PLD	1 Generator with 'DEAD BUS' facility		4,045
Phase Balance Relay Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V				
LB21	252 - PSF	Phase loss and Unbalance	Self Powered	1,675
	252 - PSG	Phase loss Unbalance and Under Voltage		2,195
Reverse Power (Current) Relay Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V Input – 1/2/3/4/5/6/8/10A				
LR61	256 - PAS	Single Phase or 3 Phase 4 Wire	Self Powered	3,495
	256 - PAT	3 Phase 3 Wire		3,565
	256 - PAQ	Single Phase or 3 Phase 4 Wire with test push button		5,910
	256 - PAR	3 Phase 3 Wire with test push button		
DC Voltage Relay DC Vol tage -18 to 20 or 20 to 32V DC				
LD21	252 - PDU	DC Under Voltage with external time delay	Self Powered	2,195
	252 - PDO	DC Over Voltage with external time delay		2,385
	253 - PDE	DC Under Voltage with external differential		2,000
DC Milivolt Relay Input-50/60/75/100/150mV (Span- Min. 10mV)				
LM21	252 - PBS	DC Milivolt Low Trip	AC : 120 / 240V	2,750
	252 - PBT	DC Milivolt High Trip		
	Extra charges for DC Aux : 12 / 24 / 48 / 110V			125

Static Relays



KMAT	Model	Description	Auxiliary Supply	LP (INR)
Transducer Trip Relay Input - DC current - 1 / 5 / 10 / 20 / 4 - 20mA & DC Voltage - 1 to 50V				
LX21	252 - PBA	Low Trip	AC : 120 / 240V	2,445
	252 - PBB	High Trip		
LX31	253 - PBV	Combined High/Low		4,855
Extra charges for DC Aux : 12 / 24 / 48 / 110V				125
Motor Protection Relay Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V				
LL31	253 - MPR	Motor Protection Relay (Phase Loss, Reversal, Unbalance)	AC : 110 / 220 / 230 / 240 / 380 / 415V	2,630
Earth Fault Relay Input - 1A / 5A				
LE31	253 - EFR	Earth Fault Relay	AC : 230V	3,160

Battery Chargers



Order Code	Model No	Input Voltage	Output Voltage	Power Range	LP (INR)
BC03-1D000000000000	1P Elite 3612A	115 V AC/ 230V AC	12 V DC	36 W	3,120
BC03-1F000000000000	1P Elite 7212A			72 W	3,400
BC03-1G000000000000	1P Elite 7224A		24 V DC		
BC03-1A000000000000	1P Elite 12012A		12 V DC	120 W	3,510
BC03-1B000000000000	1P Elite 12024A		24 V DC		
BC03-1E000000000000	1P Elite 12030A		30 V DC		

Power Supplies

Order Code	Model No	Input Voltage	Output Voltage	Output Current	Power Range	LP (INR)
RISH FLEX - E SERIES						
Single Phase - Plastic Housing						
RF14-1V000000000000	RISH Flex-e 1512A	115 V AC/ 230V AC	12 V DC	1.25 A	15 W	1,000
RF14-1W000000000000	RISH Flex-e 1515A		15 V DC	1.0 A		1,000
RF14-1P000000000000	RISH Flex-e 1524A		24VDC	0.63A		1,000
RF14-11000000000000	RISH Flex-e 3012A		12 V DC	3.0 A	30 W	1,285
RF14-12000000000000	RISH Flex-e 3024A		24 V DC	1.5 A		1,285
RF14-13000000000000	RISH Flex-e 4512A		12 V DC	3.75 A	45 W	1,325
RF14-14000000000000	RISH Flex-e 4524A		24 V DC	1.75 A		1,325
RF14-1Y000000000000	RISH Flex-e 6012A		12 V DC	5.0A	60 W	1,365
RF14-1Z000000000000	RISH Flex-e 6024A		24 V DC	2.5 A		1,365

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Order Code	Model No	Input Voltage	Output Voltage	Output Current	Power Range	LP (INR)
Single Phase - Metal Housing						
RF14-1B000000000000	RISH FLEX - e 9024A	115 V AC/ 230V AC	24 V DC	5 A	95 to 120 W	2,755
RF14-1C000000000000	RISH FLEX - e 17024A			7.5 A	120 to 180 W	2,905
Two Phase - Metal Housing						
RF14-2I000000000000	RISH FLEX - e 9024B	230V AC / 400V AC	24 V DC	5 A	95 to 120 W	3,850
RF14-2J000000000000	RISH FLEX - e 17024B			7.5 A	120 to 180 W	4,025
RISH FLEX SERIES						
Single Phase - Metal Housing						
RF13-1T000000000000	RISH FLEX 6005A	115 V AC/ 230V AC	5 V DC	5 A	35 W	2,640
RF13-1S000000000000	RISH FLEX 6012A		12 V DC	6 A	72 W	
RF13-1A000000000000	RISH FLEX 6024A		24 V DC	3 A		
RF13-1Y000000000000	RISH FLEX 9012A		12 V DC	10 A	120 W	3,805
RF13-1B000000000000	RISH FLEX 9024A		24 V DC	5 A		4,100
RF13-12000000000000	RISH FLEX 15012A		12 V DC	12.5 A	150 W	4,025
RF13-13000000000000	RISH FLEX 15024A		24 V DC	6.25 A		
RF13-14000000000000	RISH FLEX 15048A		48 V DC	3.13 A		
RF13-1R000000000000	RISH FLEX 17012A		12 V DC	14 A	180 W	4,230
RF13-1C000000000000	RISH FLEX 17024A		24 V DC	7.5 A		
RF13-1F000000000000	RISH FLEX 17048A		48 V DC	3.75 A		
RF13-1Z000000000000	RISH FLEX 24024A		24 V DC	10 A	240 W	7,155
RF13-1P000000000000	RISH FLEX 28012A		12 V DC	16 A	336 W	7,950
RF13-1D000000000000	RISH FLEX 28024A		24 V DC	14 A		7,950
RF13-1G000000000000	RISH FLEX 28048A		48 V DC	7 A		
RF13-1I000000000000	RISH FLEX 48024A		24 V DC	20 A	480 W	8,805
RF13-1E000000000000	RISH FLEX 50024A		24 V DC	25 A	600 W	9,780
RF13-1H000000000000	RISH FLEX 50048A		48 V DC	12 A		

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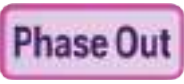
Power Supplies



Order Code	Model No	Input Voltage	Output Voltage	Output Current	Power Range	LP (INR)
Two Phase - Metal Housing						
RF13-2I000000000000	RISH FLEX 9024B	230V/ 400V/ 500 V AC	24 V DC	5 A	120 W	5,020
RF13-2J000000000000	RISH FLEX 17024B			7.5 A	180 W	5,145
RF13-2K000000000000	RISH FLEX 28024B			14 A	336 W	8,560
Three Phase - Metal Housing						
RF13-3L000000000000	RISH FLEX 50024B	400 – 500 V AC	24 V DC	25 A	600 W	10,885
Redundancy Module						
RF13-00M000000000000	RISH MR220	10 – 60 V DC	10 – 60 V DC	0 – 25 A (max)	----	2,390



Product Phase Out



Analog Protection Relay					
KMAT	Model	Description	Network		
PR10	RISH Relay PHR	Input- 110V L-L / 240V L-L / 415V L-L / 440V L-L, 50Hz/60Hz, 1 Relay Relay Configuration - NE/ND	3P3W or 3P4W		
Power Supply					
Order Code	Model No	Input Voltage	Output Voltage	Output Current	Power Range
RF13-3M000000000000	RISH PST 2430B	400 – 480 V AC	24V DC	30 A	720 W
RF13-3N000000000000	RISH PST 2440B			40 A	960 W

Terms and conditions

- This issue of Price List supersedes all previous Price Lists
- All Prices are in INR
- The prices are subject to change without prior notice
- List Prices mentioned are exclusive of all taxes & duties
- Prices charged will be as prevailing on the date of dispatch
- Minimum order value criterion should be observed while ordering
- The company reserves the right to supply goods at its discretion
- For any non-standard requirement, please contact nearest sales office regarding technical feasibility, price & delivery

Warranty

- All the products listed in the Price List carry a warranty of 18 months against manufacturing defects (unless otherwise specified) from the date of purchase or 12 months from the date of commissioning, whichever is earlier

Note

- To facilitate the ordering kindly make use of product configurator
- Kindly refer respective datasheets for detailed technical specifications. Technical specs given in this price list are in abbreviated form only for easy understanding. Selection of products must be done from the latest datasheets.
- The product approvals mentioned in the price list are on generic level, kindly contact to our nearest sales office for product-wise approvals details



We Measure The Future

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