

## TECHNICAL CHARACTERISTICS INTACT ALLPOWER RCM-INA

### General

Standards:	IEC 60831-1:2014, UL810, VDE 0560-46:2014-11
Origin:	100% made in Italy
Voltage range:	220 V to 550 V
Frequency:	50 Hz / 60 Hz
Power range:	2,5 kVar to 30 kVar
Dielectric losses:	< 0,2 W/kVar
Total losses:	< 0,5 W/kVar
Capacitance tolerance:	± 5%
Voltage test between terminals:	2,15 Un, 50 Hz, 10 seconds (routine test)
Voltage test between terminals:	3,00 Un, 50 Hz, 60 seconds (type test)
Voltage test terminal / case:	≤ 525 V 3000 V, 50 Hz for 10 seconds or > 525 V 3660 V, 50 Hz for 10 seconds
Insulation level:	3 / 8 kV
External discharge resistor:	50 V in 1 min. 1 kVar - 30 kVar or 75 V in 3 min. 30,5 kVar - 62,5 kVar
Cooling:	Natural air or forced ventilation

### Operating Conditions

Ambient temperature:	- 45 °C / 60 °C
Humidity:	up to 95%
Altitude above sea level:	2000 m.
Overvoltage:	Un+10% continuous operation Un+15% for 30 min. daily Un+20% for 5 min. daily Un+30% for 1 min. daily
Overcurrent:	up to 2,5 x In (Including Harmonics)
Inrush current:	up to 280 x In
Service life:	up to 180.000 hrs.
Harmonic presence:	NLL < 25%

### Safety Features

Safety:	Overpressure disconnecter on 3 phase + Incorporated fuses + Self-healing + Discharge device
Protection degree:	IP20

### Construction

Casing:	Aluminium can
Dielectric:	Special polypropylene film with slope metallisation and wave-cut
Impregnation:	Special polyurethane resin, Non-PCB

### Installation

Mounting position:	Vertical preferable for better cooling
Fastening & Earthing:	Through 1 point, screw M12 at the bottom

## RCM-INA CAPACITOR RATED VOLTAGE 400 V / 415 V — 3 PHASE — 50 Hz / 60 Hz

POWER AT SYSTEM VOLTAGE 50 Hz		POWER AT SYSTEM VOLTAGE 60 Hz		In 50 Hz CURRENT		In 60 Hz CURRENT		RATED CAPACITANCE	AVAILABLE DIMENSIONS*			TERMINAL TYPE	PCS/BOX	PCS/BOX	PCS/BOX
400 V kVar	415 V kVar	400 V kVar	415 V kVar	400 V A	415 V A	400 V A	415 V A	3 x $\mu$ F	$\phi$ x H (7)	$\phi$ x H (8)	$\phi$ x H (9)	mmq	$\phi$ 85	$\phi$ 100 $\phi$ 116	$\phi$ 136
2,5	2,7	3,0	3,2	3,6	3,7	4,3	4,5	16,6	85 x 225	85 x 185	-	MT 16	9	-	-
5	5,4	6,0	6,5	7	7,5	8,7	9,0	33,2	85 x 225	85 x 185	-	MT 16	9	-	-
6,25	6,72	7,5	8,1	9,02	9,34	10,8	11,2	41,4	85 x 225	85 x 185	-	MT 16	9	-	-
10	10,8	12,0	12,9	14	15,0	17,3	18,0	66,3	85 x 225	-	-	MT 16	9	-	-
12,5	13,4	15,0	16,1	18,0	18,7	21,6	22,5	82,9	100 x 225	85 x 260	-	MT 25	-	5	-
15	16,1	18,0	19,4	22	22,5	26,0	26,9	99,5	100 x 225	-	85 x 285	MT 25	9	5	-
20	21,5	24,0	25,8	29	29,9	34,6	35,9	132,6	136 x 225	116 x 260	-	MT 35	-	5	4
25	26,9	30,0	32,3	36	37,4	43,3	44,9	165,8	136 x 225	-	116 x 285	MT 35	-	5	4
30	32,3	36,0	38,7	43	44,9	51,9	53,9	198,9	136 x 300	-	-	MT 35	-	-	4

## RCM-INA CAPACITOR RATED VOLTAGE 440 V / 450 V — 3 PHASE — 50 Hz / 60 Hz

POWER AT SYSTEM VOLTAGE 50 Hz		POWER AT SYSTEM VOLTAGE 60 Hz		In 50 Hz CURRENT		In 60 Hz CURRENT		RATED CAPACITANCE	AVAILABLE DIMENSIONS*			TERMINAL TYPE	PCS/BOX	PCS/BOX	PCS/BOX
440 V kVar	450 V kVar	440 V kVar	450 V kVar	440 V A	450 V A	440 V A	450 V A	3 x $\mu$ F	$\phi$ x H (7)	$\phi$ x H (8)	$\phi$ x H (9)	mmq	$\phi$ 85	$\phi$ 100 $\phi$ 116	$\phi$ 136
2,5	2,6	3,0	3,1	3,3	3,4	3,9	4,0	13,7	85 x 225	85 x 185	-	MT 16	9	-	-
5	5,2	6,0	6,3	7	6,7	7,9	8,0	27,4	85 x 225	85 x 185	-	MT 16	9	-	-
6,25	6,5	7,5	7,9	8,20	8,4	9,8	10,1	34,3	85 x 225	85 x 185	-	MT 16	9	-	-
10	10,5	12,0	12,5	13	13,4	15,7	16,1	54,8	100 x 225	85 x 260	-	MT 25 / 16	9	5	-
12,5	13,1	15,0	15,7	16,4	16,8	19,7	20,1	68,5	100 x 225	-	85 x 285	MT 25	9	5	-
15	15,7	18,0	18,8	20	20,1	23,6	24,1	82,2	116 x 225	100 x 260	85 x 285	MT 25	9	5	-
20	20,9	24,0	25,1	26	26,8	31,5	32,2	109,6	136 x 225	116 x 260	-	MT 25	-	5	4
25	26,1	30,0	31,4	33	33,5	39,3	40,2	137	136 x 225	116 x 260	-	MT 35	-	5	4
30	31,4	36,0	37,6	39	40,2	47,2	48,3	164,4	136 x 225	-	116 x 285	MT 35	-	5	4

## RCM-INA CAPACITOR RATED VOLTAGE 525 V / 550 V — 3 PHASE — 50 Hz / 60 Hz

POWER AT SYSTEM VOLTAGE 50 Hz		POWER AT SYSTEM VOLTAGE 60 Hz		In 50 Hz CURRENT		In 60 Hz CURRENT		RATED CAPACITANCE	AVAILABLE DIMENSIONS*			TERMINAL TYPE	PCS/BOX	PCS/BOX	PCS/BOX
525 V kVar	550 V kVar	525 V kVar	550 V kVar	525 V A	550 V A	525 V A	550 V A	3 x $\mu$ F	$\phi$ x H (7)	$\phi$ x H (8)	$\phi$ x H (9)	mmq	$\phi$ 85	$\phi$ 100 $\phi$ 116	$\phi$ 136
2,5	2,7	3,0	3,3	2,7	2,9	3,3	3,4	9,6	85 x 225	85 x 185	-	MT 16	9	-	-
5	5,5	6,0	6,6	5	5,7	6,6	6,9	19,2	85 x 225	-	-	MT 16	9	-	-
6,25	6,9	7,5	8,2	6,87	7,2	8,3	8,7	24,1	100 x 225	85 x 225	-	MT 25 / 16	9	5	-
10	11,0	12,0	13,2	11	11,5	13,2	13,8	38,5	116 x 225	-	85 x 285	MT 25 / 16	9	5	-
12,5	13,7	15,0	16,4	13,7	14,4	16,5	17,3	48,1	136 x 225	-	100 x 300	MT 25	-	5	4
15	16,4	18,0	19,7	16	17,3	19,8	20,7	57,7	136 x 225	-	116 x 285	MT 25	-	5	4
20	21,9	24,0	26,3	22	23,0	26,4	27,6	77,0	136 x 300	-	116 x 285	MT 25	-	5	4
25	27,4	30,0	32,9	27	28,8	33,0	34,5	96,2	136 x 300	-	-	MT 25	-	-	4
30	32,9	36,0	39,5	33	34,5	39,6	41,5	115,5	136 x 375	-	-	MT 35	-	-	2

Up to 30 kVar 400 V or 30 kVar 525 V capacitors are also available in single-phase version.  
Other capacitor powers and voltages are available on request. Contact us [info@gruppenergia.it](mailto:info@gruppenergia.it)

\*All dimensions are in "mm" and will be confirmed at the time of order.