

## World's First Terminal Block With Lever-Operated Spring Connection



### INTRODUCTION

Time is money, and in the control cabinet the wiring of capacitors makes up a considerable part of the assembly time.

Most tubular power capacitors have an IP20 terminal block with a screw connection. Vishay is now introducing a new generation of power capacitors with fast connection technology. Completely screwless, this new technology is significantly faster and simpler to use thanks to spring force and lever actuation. The lever position serves as a reliable indicator of a complete connection with the necessary connection force, so there is no need to worry about torque specifications.

In addition, Vishay's fast connection technology offers maximum contact reliability over the entire service life of the capacitors, and is completely maintenance-free without the need to tighten screws. Particularly in the case of environments with constant vibration, such as wind power plants, valuable investments remain secure against irreparable damage caused by loose connections.

### APPLICATIONS

- Wind power plants
- Solar panels and inverters
- Thermal power stations
- Power factor correction  $\leq 1000 \text{ VAC}_{\text{RMS}}$
- Harmonic filters

## Features:

√	Maintenance-free
√	Reduced assembly times up to 60 %
√	Vibration-proof in wind power plants and during transport
√	Optical connection check: lever closed = successfully contacted
√	2.5 mm <sup>2</sup> up to 25 mm <sup>2</sup> with wire-end sleeve
√	Defined continuous contact force through spring technology
√	Stainless steel spring
√	Corrosion-proof
√	Fast and easy lever-operated wire connection
√	Copper alloy for conductor material

## Standards for ESTAspring Terminal Block:

√	Conductor pull-out test according to IEC 60998-2-1
√	Impulse withstand voltage test according to IEC 60664-1
√	Current carrying capacity up to 90 A / phase according to IEC 60512-5-2
√	Vibration test according to IEC 60068-2-6
√	Corrosion test according to IEC 6988
√	Temperature shock test according to IEC 60512-11-4, clause 11d
√	Degree of protection IP20, tested according to DIN 40050-9/60529
√	UL / ULC

The lever is designed for a minimum of 10 operating cycles. Continuous use can result in excessive wear.



# ESTAspring

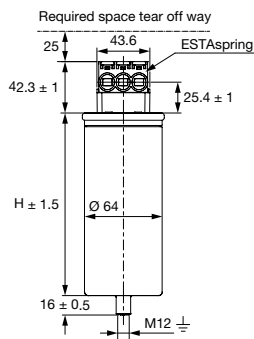
Type	Article no.	Voltage (V)	Output (kvar)	Cap. (μF) delta	Current (A)	Dimensions Ø x H mm
PhMKP400.3.12,50-S64	5341-48108-XX	400	12.5	3 x 82.9	18	64 x 265
PhMKP400.3.20,00-S84	5341-48807-XX	400	20	3 x 132.6	28.8	84.4 x 265
PhMKP400.3.25,00-S84	5341-48808-XX	400	25	3 x 165.8	36.1	84.4 x 265
PhMKP440.3.25,00-S84	5341-48816-XX	440	25	3 x 137	32.8	84.4 x 265
PhMKP440.3.28,10-S84	5341-48817-XX	440	28.1	3 x 154	36.9	84.4 x 265
PhMKP525.3.12,50-S84	5341-48820-XX	525	12.5	3 x 48.1	13.7	84.4 x 190
PhMKP525.3.20,00-S84	5341-48823-XX	525	20	3 x 77	22	84.4 x 265
PhMKP525.3.25,00-S84	5341-48824-XX	525	25	3 x 96.2	27.5	84.4 x 265
PhMKP660.3.22,90-S84	5341-48831-XX	660	22.9	3 x 55.8	20	84.4 x 340

## Type designation

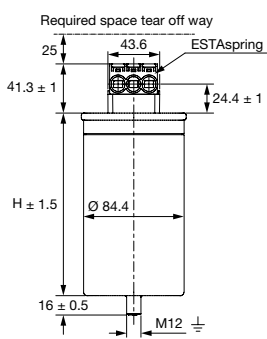
PhMKP	440	.3.	28,10	-S84
Series (oil-filled)	Voltage (V)	Delta-connected	Output (kvar)	ESTAspring on 84 mm diameter can

## Additional ratings on request

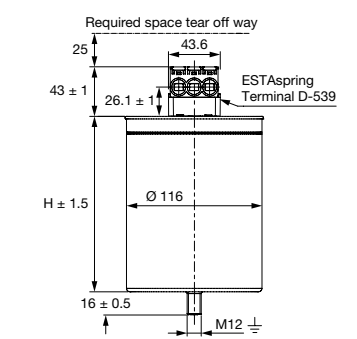
Series	PhMKP, oil-filled; PhMKPg, DRY, gas-filled
Voltage (VAC)	230 to 1000
Connection	Single = 1; star = 2; delta = 3
Output (kvar)	2.5 to 37.1
Terminal / diameter	S = ESTAspring / 64 mm, 84 mm, 116 mm



Drawing 1



Drawing 2



Drawing 3