# Serie POLB HD

**2,5 … 50kvar 50Hz**

**CONDENSADOR CILÍNDRICO TRIFÁSICO**

***THREE PHASE CYLINDRICAL CAPACITOR***

# Heavy Duty

**DESCRIPCIÓN** / ***DESCRIPTION***

La gama de condensadores **Heavy Duty (HD)** ha sido diseñada para asegurar un largo servicio y ofrecer un alto rendimiento debido a sus características eléctricas mejoradas.
Son condensadores auto-regenerantes con dieléctrico de polipropileno de bajas pérdidas, rellenos con gas inerte N2 e incorporan un sistema de desconexión por sobrepresión, el cual ofrece un máximo nivel de seguridad ante defectos, al cortar las 3 fases en caso de actuación.
Los condensadores se presentan montados en recipientes de aluminio provistos de saliente roscado M12 para su fijación y puesta a tierra.
La conexión se realiza por regleta con bornes tipo mordaza.
La placa de características del condensador incorpora un código QR, el cual permite la descarga del certificado individual de verificación (ensayo de rutina) que, además, otorga una protección anticopia.

***Heavy Duty (HD series)** capacitors are designed to offer long time expectancy and outstanding performance with its higher electrical characteristics.*
*It is a self-healing capacitor with low losses metallized polypropylene dielectric, filled with inert gas N2. They have an overpressure disconnection system which provides a high level of safety against internal defects cutting the 3 phases.*
*Capacitors are built in cylindrical aluminum cans, provided with a M12 stud for fixing and earthling. Connection is made by a terminal block with clamp type terminals.*
*The name plate includes a QR code associated, allowing you to download the individual routine test certificate, and it also offers a copy protection.*

## HD Features

**Imax(1) =** 2 In
**Ipeak =** 400 In
**Life Time Expectancy :** 150.000 h
**Temperature Class (2):** - 40/D(60ºC)




**CARACTERÍSTICAS TÉCNICAS** / ***TECHNICAL CHARACTERISTICS***

| | |
|---|---|
| • Tension Nominale / *Rated Voltage* | 230...690 V 50Hz |
| • Frecuencia / *Frequency* | 50Hz |
| • Dieléctrico / *Dielectric* | Polipropileno/*Polypropylene* |
| • Resistencias descarga / *Discharge Resistors* | Integradas/*Fitted* (75V/3m) |
| • Pérdidas dieléctricas / *Dielectric losses* | ≤0,2W/kvar |
| • Pérdidas totales / *Total losses* 0,4 W/kvar | ≤0,4 W/kvar |
| • Sobretensión máx. / *Max. Overvoltage* | 1,1 Un |
| • Sobreintensidad máx. / *Max. Overcurrent* | 2 In |
| • Sobreintensidad transitoria / *Transient overcurrent* | 400 In |
| • Nivel de aislamiento / *Isolation level* | 3/8 kV |
| • Tolerancia de potencia / *Power tolerance* | - 5 / + 10 % |
| • Gama climática/ *Climatic Range* | - 40 / D (60º C) |
| • Expectativa de vida / *Life expectancy* | > 150.000 horas / hours |
| • Borne de Conexión/ *Terminal Block* | Tipo/*Type A: 16mm²; 3Nm max.; Pozidriv head screws*<br>Tipo/*Type B: 25mm²; 3Nm max.; Pozidriv head screws*<br>Tipo/*Type C: 35mm² ; 3.7Nm max.; Hex socket head screws* |
| • Fijación/ *Fixing Stud* | M12 |
| • Grado de protección / *Protection degree* | IP20<br>IP54 (Con caperuza hasta 116mm Ø)/ *(with hood up to 116mm Ø)* |
| • Normas/ *Standards* | IEC 60831, EN 60831, UL810<br>Certificación UL en curso /*UL certification in progress* |

Notas / *Remarks:*
(1) Intensidad de corriente máxima durante 48 horas de operación / *Maximum current for 48 hours continuous operation.*
(Tested as per IEC 60831-1:2014 Clause 13).
(2) Temperatura máxima/*Maximum temperature as per* IEC 60831-1:2014. Clause 4.1
40/D (60 ºC) Referido/*Refers:* 60 ºC Temperatura puntual máxima/*Maximum punctual temperature.*
45 ºC Temperatura media máxima por un período de 24 h./*Highest mean temperature over any period of 24 h.*
35 ºC Temperatura media máxima por un período de 1 año./*Highest mean temperature over any period of a year.*

**230V 50Hz**

| Referencia / *Part Number* | 50 Hz | | | | | | $C_N$ (*) | Dimensiones / *Dimensions* | Peso / *Weight* | Bornes / *Terminal Block* |
|---|---|---|---|---|---|---|---|---|---|---|
| | 230 V | | 220 V | | 240 V | | | | | |
| | Qn (kvar) | In (A) | Qn (kvar) | In (A) | Qn (kvar) | In (A) | (µF) | d x h (mm) | (kg) | |
| **POLB23025HD** | **2,5** | 6,3 | **2,3** | 6,0 | **2,7** | 6,5 | 3 x 75,2 | 85 x 175 | 0.9 | A |
| **POLB23050HD** | **5** | 12,6 | **4,6** | 12,0 | **5,4** | 13,1 | 3 x 150,4 | 85 x 175 | 1.2 | A |
| **POLB23075HD** | **7,5** | 18,8 | **6,9** | 18,0 | **8,2** | 19,6 | 3 x 225,6 | 85 x 245 | 1.7 | A |
| **POLB23100HD** | **10** | 25,1 | **9,1** | 24,0 | **11** | 26,2 | 3 x 300,9 | 100 x 245 | 2.0 | A |
| **POLB23125HD** | **12,5** | 31,4 | **11** | 30,0 | **14** | 32,7 | 3 x 376,1 | 100 x 245 | 3.3 | A |
| **POLB23150HD** | **15** | 37,7 | **14** | 36,0 | **16** | 39,3 | 3 x 451,3 | 116 x 245 | 3.3 | B |

**LINK:** Capacidad Medida (Aparente) (Ver Nota Técnica: TS 03-020)
**LINK:** Measured (Apparent) (Refer to the technical note: TS 03-020)

# Serie POLB HD

**2,5 … 50kvar 50Hz**

**CONDENSADOR CILÍNDRICO TRIFÁSICO**

***THREE PHASE CYLINDRICAL CAPACITOR***

# Heavy Duty

**440V 50Hz**

| Referencia *Part Number* | 50 Hz | | | | | | $C_N$ (*) | Dimensiones *Dimensions* | Peso *Weight* | Bornes *Terminal Block* |
|---|---|---|---|---|---|---|---|---|---|---|
| | 440 V | | 400 V | | 415 V | | | | | |
| | Qn (kvar) | In (A) | Qn (kvar) | In (A) | Qn (kvar) | In (A) | (µF) | d x h (mm) | (kg) | |
| POLB44075HD | 7,5 | 9,8 | 6,2 | 8,9 | 6,7 | 9,3 | 3 x 61,7 | 85 x 175 | 0,9 | A |
| POLB44100HD | 10 | 13,1 | 8 | 11,9 | 9 | 12,4 | 3 x 82,2 | 85 x 245 | 1,0 | A |
| POLB44125HD | 12,5 | 16,4 | 10 | 14,9 | 11 | 15,5 | 3 x 102,8 | 85 x 245 | 1,2 | A |
| POLB44150HD | 15 | 19,7 | 12,5 | 17,9 | 13 | 18,6 | 3 x 123,3 | 85 x 245 | 1,3 | A |
| POLB44182HD | 18 | 23,6 | 15 | 21,5 | 16 | 22,3 | 3 x 148,0 | 100 x 245 | 1,9 | A |
| POLB44200HD | 20 | 26,2 | 16,0 | 23,9 | 18 | 24,8 | 3 x 164,4 | 100 x 245 | 1,9 | A |
| POLB44250HD | 25 | 32,8 | 20 | 29,8 | 22 | 30,9 | 3 x 205,5 | 100 x 245 | 3,1 | B |
| POLB44300HD | 30 | 39,4 | 25 | 35,8 | 27 | 37,1 | 3 x 246,6 | 116 x 245 | 3,3 | B |
| POLB44364HD | 36 | 47,2 | 30 | 42,9 | 32 | 44,6 | 3 x 295,9 | 136 x 220 | 3,3 | B |
| POLB44400HD | 40 | 52,5 | 33 | 47,7 | 36 | 49,5 | 3 x 328,8 | 136 x 261 | 4,0 | B |
| POLB44500HD | 50 | 65,6 | 40 | 59,6 | 44 | 61,9 | 3 x 411,0 | 136 x 355 | 5,5 | C |
| POLB40500HD | - | - | 50 | 72,2 | - | - | 3 x 497,4 | 136 x 355 | 5,5 | C |

**460V 50Hz**

| Referencia *Part Number* | 50 Hz | | | | | | $C_N$ (*) | Dimensiones *Dimensions* | Peso *Weight* | Bornes *Terminal Block* |
|---|---|---|---|---|---|---|---|---|---|---|
| | 460 V | | 400 V | | 440 V | | | | | |
| | Qn (kvar) | In (A) | Qn (kvar) | In (A) | Qn (kvar) | In (A) | (µF) | d x h (mm) | (kg) | |
| POLB46025HD | 2,5 | 3,1 | 1,9 | 2,7 | 2,3 | 3,0 | 3 x 18,8 | 85 x 175 | 0,9 | A |
| POLB46050HD | 5 | 6,3 | 3,8 | 5,5 | 4,6 | 6,0 | 3 x 37,6 | 85 x 175 | 0,9 | A |
| POLB46062HD | 6,25 | 7,8 | 4,7 | 6,8 | 5,7 | 7,5 | 3 x 47,0 | 85 x 175 | 1,1 | A |
| POLB46075HD | 7,5 | 9,4 | 5,7 | 8,2 | 6,9 | 9,0 | 3 x 56,4 | 85 x 175 | 1,1 | A |
| POLB46100HD | 10 | 12,6 | 7,6 | 10,9 | 9,1 | 12,0 | 3 x 75,2 | 85 x 245 | 1,1 | A |
| POLB46125HD | 12,5 | 15,7 | 9,5 | 13,6 | 11,4 | 15,0 | 3 x 94,0 | 85 x 245 | 1,6 | A |
| POLB46150HD | 15 | 18,8 | 11 | 16,4 | 14 | 18,0 | 3 x 112,8 | 85 x 245 | 1,7 | A |
| POLB46185HD | 18,5 | 23,2 | 14 | 20,2 | 17 | 22,2 | 3 x 139,1 | 100 x 245 | 2,2 | A |
| POLB46200HD | 20 | 25,1 | 15 | 21,8 | 18 | 24,0 | 3 x 150,4 | 100 x 245 | 2,4 | A |
| POLB46250HD | 25 | 31,4 | 19 | 27,3 | 23 | 30,0 | 3 x 188,0 | 116 x 245 | 2,6 | B |
| POLB46300HD | 30 | 37,7 | 23 | 32,7 | 27 | 36,0 | 3 x 225,6 | 136 x 220 | 2,7 | B |
| POLB46333HD | 33 | 41,4 | 25,0 | 36,0 | 30 | 39,6 | 3 x 248,2 | 136 x 261 | 2,9 | B |
| POLB46370HD | 37 | 46,4 | 28 | 40,4 | 34 | 44,4 | 3 x 278,3 | 136 x 261 | 3,1 | B |

**525V 50Hz**

| Referencia *Part Number* | 50 Hz | | | | | | $C_N$ (*) | Dimensiones *Dimensions* | Peso *Weight* | Bornes *Terminal Block* |
|---|---|---|---|---|---|---|---|---|---|---|
| | 525 V | | 480 V | | 550 V | | | | | |
| | Qn (kvar) | In (A) | Qn (kvar) | In (A) | Qn (kvar) | In (A) | (µF) | d x h (mm) | (kg) | |
| POLB52050HD | 5 | 5,5 | 4,2 | 5,0 | 5,5 | 5,8 | 3 x 28,9 | 85 x 175 | 0,8 | A |
| POLB52075HD | 7,5 | 8,2 | 6,3 | 7,5 | 8,2 | 8,6 | 3 x 43,3 | 85 x 175 | 0,9 | A |
| POLB52100HD | 10 | 11,0 | 8,4 | 10,1 | 11,0 | 11,5 | 3 x 57,7 | 85 x 245 | 1,0 | A |
| POLB52125HD | 12,5 | 13,7 | 10 | 12,6 | 13,7 | 14,4 | 3 x 72,2 | 85 x 245 | 1,1 | A |
| POLB52150HD | 15 | 16,5 | 12,5 | 15,1 | 16,5 | 17,3 | 3 x 86,6 | 85 x 245 | 1,3 | A |
| POLB52200HD | 20 | 22,0 | 17 | 20,1 | 22,0 | 23,0 | 3 x 115,5 | 100 x 245 | 1,9 | A |
| POLB52250HD | 25 | 27,5 | 21 | 25,1 | 27,4 | 28,8 | 3 x 144,4 | 116 x 245 | 2,1 | B |
| POLB52300HD | 30 | 33,0 | 25 | 30,2 | 32,9 | 34,6 | 3 x 173,2 | 116 x 245 | 3,3 | B |
| POLB52400HD | 40 | 44,0 | 33 | 40,2 | 43,9 | 46,1 | 3 x 231,0 | 136 x 261 | 3,8 | B |
| POLB52500HD | 50 | 55,0 | 42 | 50,3 | 54,9 | 57,6 | 3 x 288,7 | 136 x 355 | 5,5 | C |

*(*) Capacidad Medida (Aparente) (Ver Nota Técnica: TS 03-020)*

*(*) Measured (Apparent) (Refer to the technical note: TS 03-020)*

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**2,5 … 50kvar 50Hz**

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***THREE PHASE CYLINDRICAL CAPACITOR***

## Heavy Duty

**690V 50Hz**

| Referencia *Part Number* | 50 Hz | | | | | | $C_N$ (*) | Dimensiones *Dimensions* | Peso *Weight* | Bornes *Terminal Block* |
|---|---|---|---|---|---|---|---|---|---|---|
| | 690 V | | 600 V | | 660 V | | | | | |
| | Qn (kvar) | In (A) | Qn (kvar) | In (A) | Qn (kvar) | In (A) | (µF) | d x h (mm) | (kg) | |
| **POLB69050HD** | 5 | 4,2 | **3,8** | 3,6 | **4,6** | 4,0 | 3 x 16,7 | 85 x 175 | 0,8 | A |
| **POLB69062HD** | 6,25 | 5,2 | **4,7** | 4,5 | **5,7** | 5,0 | 3 x 20,9 | 85 x 175 | 0.9 | A |
| **POLB69100HD** | 10 | 8,4 | **7,6** | 7,3 | **9,1** | 8,0 | 3 x 33,4 | 85 x 245 | 1.0 | A |
| **POLB69125HD** | 12,5 | 10,5 | **9** | 9,1 | **11** | 10,0 | 3 x 41,8 | 85 x 245 | 1,2 | A |
| **POLB69150HD** | 15 | 12,6 | **11** | 10,9 | **14** | 12,0 | 3 x 50,1 | 85 x 245 | 1.3 | A |
| **POLB69200HD** | 20 | 16,7 | **15** | 14,6 | **18** | 16,0 | 3 x 66,9 | 100 x 245 | 1,9 | A |
| **POLB69250HD** | 25 | 21 | **19** | 18,2 | **23** | 20,0 | 3 x 83,6 | 116 x 245 | 2,1 | B |
| **POLB69300HD** | 30 | 25,1 | **23** | 21,8 | **27** | 24,0 | 3 x 100,3 | 136 x 220 | 3,3 | B |
| **POLB69400HD** | 40 | 33,5 | **30** | 29,1 | **37** | 32,0 | 3 x 133,7 | 136 x 355 | 4,8 | C |
| **POLB69500HD** | 50 | 41,8 | **38** | 36,4 | **46** | 40,0 | 3 x 167,1 | 136 x 355 | 5,5 | C |

*(*) Capacidad Medida (Aparente) (Ver Nota Técnica: TS 03-020)*

*(*) Measured (Apparent) (Refer to the technical note: TS 03-020)*

**ACCESSORIES:** **Rubber Protection**

| Referencia *Part Number* | Descripción *Description* |
|---|---|
| **H19090601** | Plastic protection cover for d=85 mm.(incl. Gland Ref: CT14001) |
| **H19100601** | Plastic protection cover for d=100 mm |
| **H19116601** | Plastic protection cover for d=110 mm and d=116 (incl. gland) |