

# ***THE STANDARD IN REUSE***

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Standards & Strategic  
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CEO



PSMC Meeting  
"Counterfeit Parts"  
November 2009  
San Diego, CA



Overview-:

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Catalog Search

- ☞ CJ2 - Standard: Double Acting Single & D
- ☞ CJ2 (Assembly) - Standard: Double Actin
- ☞ CJ2 Clean Series - Standard: Double Acti
- ☞ CJ2 Clean Series (Assembly) - Standard:
- ☞ CJ2\_S - Standard: Single Acting Spring R
- ☞ CJ2\_S (Assembly) - Standard: Single Acti
- ☞ CJ2K - Non-rotating Rod:Double Acting Si
- ☞ CJ2K (Assembly) - Non-rotating Rod:Doul
- ☞ CJ2K\_S - Non-rotating Rod:Single Acting
- ☞ CJ2K\_S (Assembly) - Non-rotating Rod:Si
- ☞ CJ2Q - Low Friction: Double Acting Single
- ☞ CJ2Q (Assembly) - Low Friction: Double A
- ☞ CJ2R - Direct Mount:Double Acting Single
- ☞ CJ2R (Assembly) - Direct Mount:Double A
- ☞ CJ2R\_S - Direct Mount:Single Acting Sprir
- ☞ CJ2R\_S (Assembly) - Direct Mount:Single
- ☞ CJ2RK - Non-rotating Rod/Direct Mount:D
- ☞ CJ2RK (Assembly) - Non-rotating Rod/Dir
- ☞ CJ2RK\_S - Non-rotating Rod/Direct Mount
- ☞ CJ2RK\_S (Assembly) - Non-rotating Rod/
- ☞ CJ2Z - Built-in Speed Controller:Double A
- ☞ CJ2Z (Assembly) - Built-in Speed Control

- ☑ CS1 Air cylinder
- ☑ CM2 Air Cylinder
- ☑ CS5 Compact ISO Cylinder
- ☑ CLQ Compact Cylinder with lock
- ☑ CE Scale Cylinder
- ☑ MB Air cylinder
- ☑ CL Fine Lock: Lock-up Cylinder
- ☑ CL1 Fine Lock: Lock-up Cylinder
- ☑ CNG Cylinder with lock
- ☑ CNS Cylinder with Lock

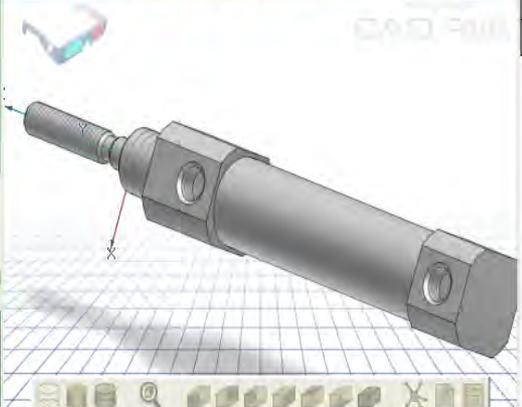
Home | SMC SMC | Standard Air C... | CJ2 Air Cylind... | **CJ2 - Standard...**

| Row | BORE<br>Bore size [mm] | ROD<br>Rod type | A<br>A [mm] | B<br>B [mm] | C<br>C [mm] | D<br>D [mm] | F<br>F [mm] | GA<br>GA [mm] | GB<br>GB [mm] | H<br>H [mm] | MM<br>MM [mm] | NA<br>NA [mm] | NBB<br>NBB [mm] | NDH8<br>NDH8 [mm] | ND<br>ND [mm] | NN<br>NN [mm] | S<br>S [mm] | T<br>T [mm] | Z<br>Z [mm] | B1<br>B1 [mm] | C1<br>C1 [mm] | GA1<br>GA1 [mm] | GB1<br>GB1 [mm] | NA1<br>NA1 [mm] | NB1<br>NB1 [mm] | VA |
|-----|------------------------|-----------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|-------------|---------------|---------------|-----------------|-------------------|---------------|---------------|-------------|-------------|-------------|---------------|---------------|-----------------|-----------------|-----------------|-----------------|----|
| 1   | 6                      | (I) Single rod  | 15          | 12          | 14          | 3           | 8           | 14.5          | 0             | 28          | M3 x 0.5      | 16.0          | 7.0             | 6 +0/-0.018       | 6             | M6 x 1.0      | 49.0        | 3           | 77          | 0             | 0             | 0.0             | 0.0             | 0               | 0               |    |
| 2   | 6                      | (W) Double rod  | 15          | 12          | 14          | 3           | 8           | 14.5          | 0             | 28          | M3 x 0.5      | 16.0          | 0.0             | 6 +0/-0.018       | 6             | M6 x 1.0      | 61.0        | 3           | 117         | 0             | 0             | 0.0             | 0.0             | 0               | 0               |    |
| 3   | 10                     | (I) Single rod  | 15          | 12          | 14          | 4           | 8           | 8.0           | 5             | 28          | M4 x 0.7      | 12.5          | 9.5             | 8 +0/-0.022       | 8             | M8 x 1.0      | 46.0        | 0           | 74          | 15            | 17            | 7.5             | 6.5             | 21              | 20              |    |
| 4   | 10                     | (W) Double rod  | 15          | 12          | 14          | 4           | 8           | 8.0           | 0             | 28          | M4 x 0.7      | 12.5          | 0.0             | 8 +0/-0.022       | 8             | M8 x 1.0      | 49.0        | 0           | 105         | 15            | 17            | 7.5             | 0.0             | 21              | 0               |    |
| 5   | 16                     | (I) Single rod  | 15          | 18          | 20          | 5           | 8           | 8.0           | 5             | 28          | M5 x 0.8      | 12.5          | 9.5             | 10 +0/-0.022      | 10            | M10 x 1.0     | 47.0        | 0           | 75          | 18            | 20            | 7.5             | 6.5             | 21              | 20              |    |
| 6   | 16                     | (W) Double rod  | 15          | 18          | 20          | 5           | 8           | 8.0           | 0             | 28          | M5 x 0.8      | 12.5          | 0.0             | 10 +0/-0.022      | 10            | M10 x 1.0     | 50.0        | 0           | 106         | 18            | 20            | 7.5             | 0.0             | 21              | 0               |    |

Rows per page: 20

[CJ2B6-15R(0) ... CJ2WB16-15(0)]

Animation
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|              | <span style="color: red;">✗</span> | HLM-275-3-3 |          | Direct to Solidworks==2004 |                 | Aug 12, 2009 |        |



  
[> Legend](#)

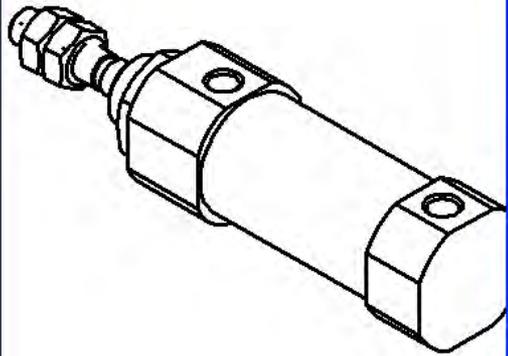
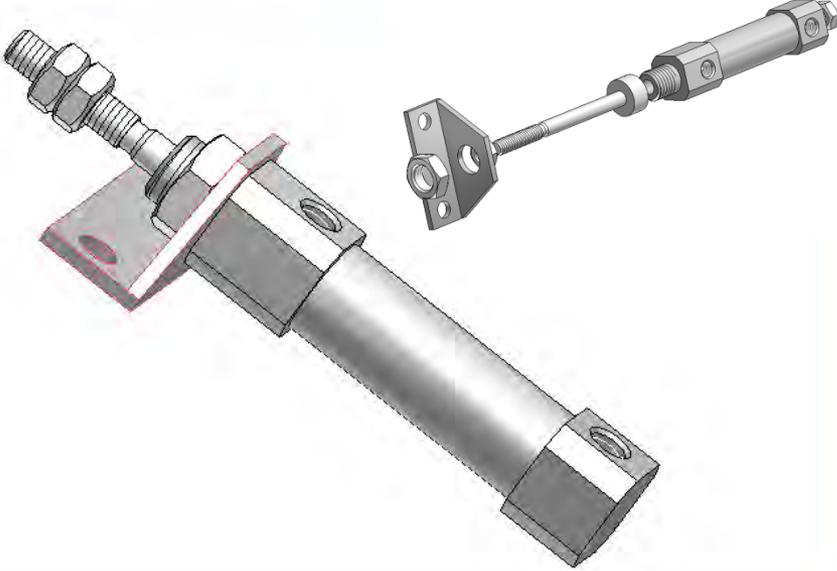
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CJ2L10-5

|    | BORE<br>Bore [mm] | MOUNT<br>Mounting type | * MAGNET<br>Built-in magnet | * AUTOSWITCH<br>Auto switch | * LEAD<br>Lead wire len... | * NUMBER<br>Switch sign | * CUSHION<br>Cushion | * STROKE<br>Cylinder strok... | * POS<br>Position [mm] | * PORT<br>Part location on h... | * STOP<br>Stroke option | COM<br>Comment | * THREAD2<br>Thread on/off | A<br>A [mm] | B<br>B [mm] | C<br>C [mm] |
|----|-------------------|------------------------|-----------------------------|-----------------------------|----------------------------|-------------------------|----------------------|-------------------------------|------------------------|---------------------------------|-------------------------|----------------|----------------------------|-------------|-------------|-------------|
| 1  | 6                 | (B) Basic              | (-) Without magnet          | N/A                         | N/A                        | N/A                     | (-) Rubber cushion   | 5                             | 0                      | (R) In-line                     | Standard stroke         | -              | on                         | 15          | 12.0        | 14          |
| 2  | 6                 | (L) Axial foot         | (-) Without magnet          | N/A                         | N/A                        | N/A                     | (-) Rubber cushion   | 5                             | 0                      | (R) In-line                     | Standard stroke         | -              | on                         | 15          | 12.0        | 14          |
| 3  | 6                 | (F) Front flange       | (-) Without magnet          | N/A                         | N/A                        | N/A                     | (-) Rubber cushion   | 5                             | 0                      | (R) In-line                     | Standard stroke         | -              | on                         | 15          | 12.0        | 14          |
| 4  | 10                | (B) Basic              | (-) Without magnet          | N/A                         | N/A                        | N/A                     | (-) Rubber cushion   | 5                             | 0                      | (-) Perpendicular               | Standard stroke         | -              | on                         | 15          | 12.0        | 14          |
| 5  | 10                | (L) Axial foot         | (-) Without magnet          | N/A                         | N/A                        | N/A                     | (-) Rubber cushion   | 5                             | 0                      | (-) Perpendicular               | Standard stroke         | -              | on                         | 15          | 12.0        | 14          |
| 6  | 10                | (F) Front flange       | (-) Without magnet          | N/A                         | N/A                        | N/A                     | (-) Rubber cushion   | 5                             | 0                      | (-) Perpendicular               | Standard stroke         | -              | on                         | 15          | 12.0        | 14          |
| 7  | 10                | (D) Clevis             | (-) Without magnet          | N/A                         | N/A                        | N/A                     | (-) Rubber cushion   | 5                             | 0                      | (-) Perpendicular               | Standard stroke         | -              | on                         | 15          | 12.0        | 14          |
| 8  | 16                | (B) Basic              | (-) Without magnet          | N/A                         | N/A                        | N/A                     | (-) Rubber cushion   | 5                             | 0                      | (-) Perpendicular               | Standard stroke         | -              | on                         | 15          | 18.3        | 20          |
| 9  | 16                | (L) Axial foot         | (-) Without magnet          | N/A                         | N/A                        | N/A                     | (-) Rubber cushion   | 5                             | 0                      | (-) Perpendicular               | Standard stroke         | -              | on                         | 15          | 18.3        | 20          |
| 10 | 16                | (F) Front flange       | (-) Without magnet          | N/A                         | N/A                        | N/A                     | (-) Rubber cushion   | 5                             | 0                      | (-) Perpendicular               | Standard stroke         | -              | on                         | 15          | 18.3        | 20          |
| 11 | 16                | (D) Clevis             | (-) Without magnet          | N/A                         | N/A                        | N/A                     | (-) Rubber cushion   | 5                             | 0                      | (-) Perpendicular               | Standard stroke         | -              | on                         | 15          | 18.3        | 20          |

HB = CJ2L10-5(0\_0\_0), LOD = HI\_AUTO

Technical details:



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**CJ2 stainless steel air cylinder**  
CJ2 stainless steel air cylinder is mini design. Save much more space than standard cylinder....  
Zhejiang Sazn Pneumatic Co., Ltd. [Verified Member]  
Gold Supplier Company Video

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Min. Order: 10 Pieces  
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CJ2SeriesCylinder...  
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**CJ2 Series Cylinders**  
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Gold Supplier

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CJ2 Series Stainless Steel Mini Pneumatic Cylinder...  
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Gold Supplier Company Video

China  
Min. Order: 100 Pieces  
Offline  
Contact Now
- 

**Series CJ2 standard type single acting air cylinder**  
Series CJ2 standard type air cylinder with single acting, spring return/extend....  
Yueqing Airbest Electric Co., Ltd. [Verified Member]  
Gold Supplier

China  
Min. Order: 10 Pieces  
Offline  
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Companies are

- Consolidating Suppliers
- Requesting Supplier data as a PARTsolutions 3D catalog
- Requiring standard part catalog management

**PART** **IWKA JONES**

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AT R. A. JONES**



**SUPPLIERS STRENGTHEN THEIR COLLABORATION WITH R. A. JONES**

**COMPONENT SUPPLIERS FOR R. A. JONES**

| COMPONENT                | COMPONENT   | COMPONENT                 |
|--------------------------|-------------|---------------------------|
| Drives                   |             |                           |
| Pulleys                  | Gears       |                           |
| Belts                    |             |                           |
| Toggle clamps            | Hoist rings | Jack screw supports       |
| Gear boxes               |             |                           |
| Chain                    |             |                           |
| Belts                    | Bearings    | Pulleys, gears, sprockets |
| Belt                     | Pulleys     | Gears                     |
| Gear boxes               |             |                           |
| Chain sprockets          | Gears       |                           |
| Couplings                |             |                           |
| Motors                   | Drives      |                           |
| Gear boxes               |             |                           |
| Linear Drives            | Slides      |                           |
| Linear motion components | Bearings    | Ball screws               |

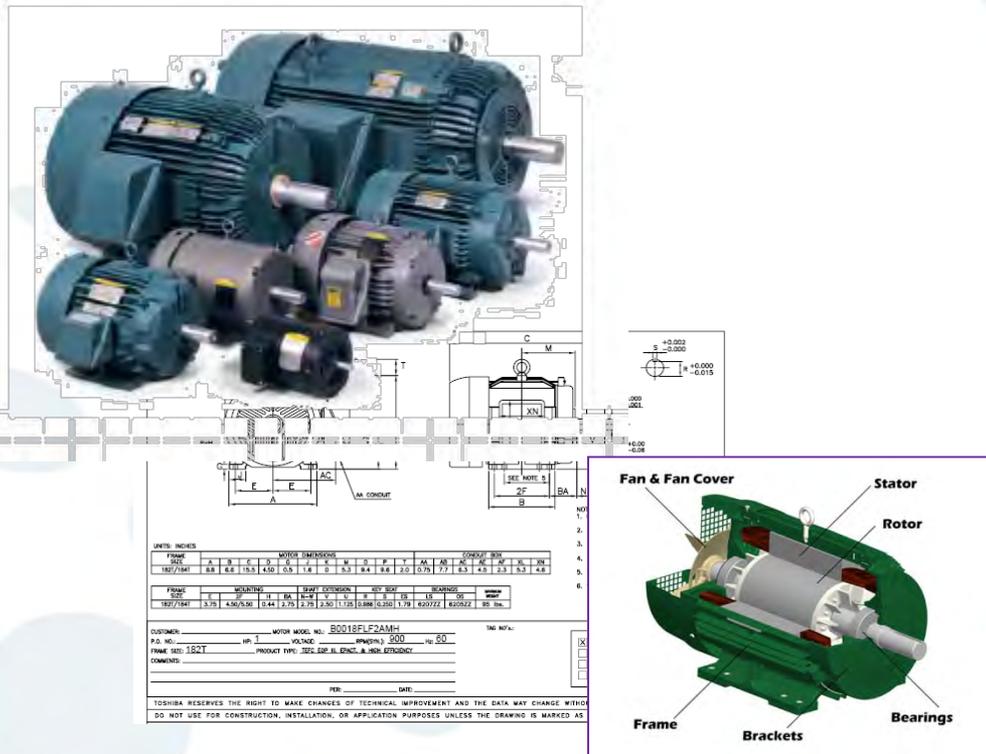
**ITS SUPPLIERS SPEAK THE SAME "LANGUAGE"!**

PARTsolutions provides an easy way to find parts without a special part number code.

We keep our part numbers simple, all numeric numbers. With the PARTsolutions database and search ability, we no longer need to make part numbers with a "smart number" database code that requires a decoding definition to determine the meaning. We let the database information find the part and keep our part numbers as simple numerical numbers for easy data entry and customer reference.

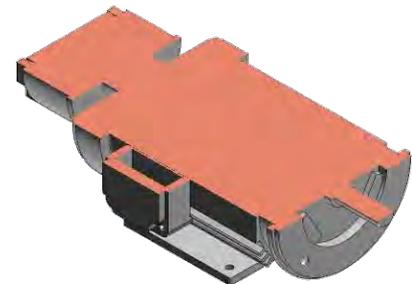
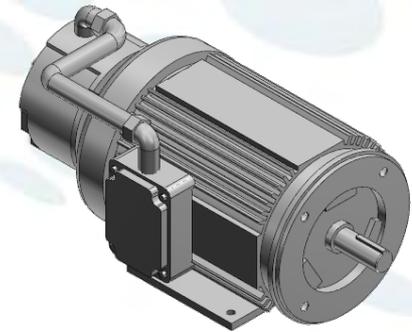
## Using Supplier Engineering Data

- Contains Intellectual property
- Not needed by customers



## Catalog Models

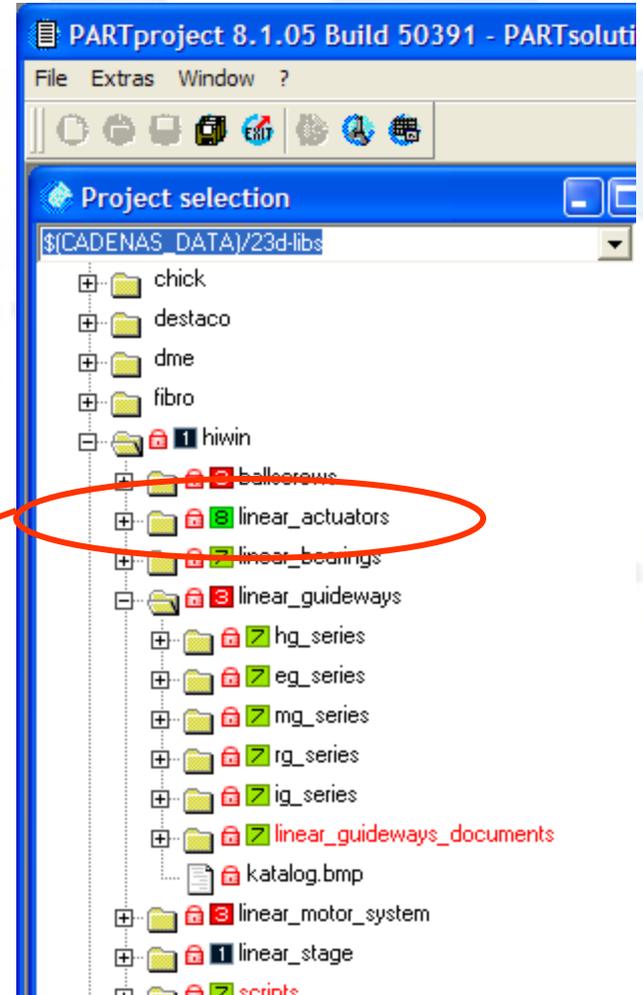
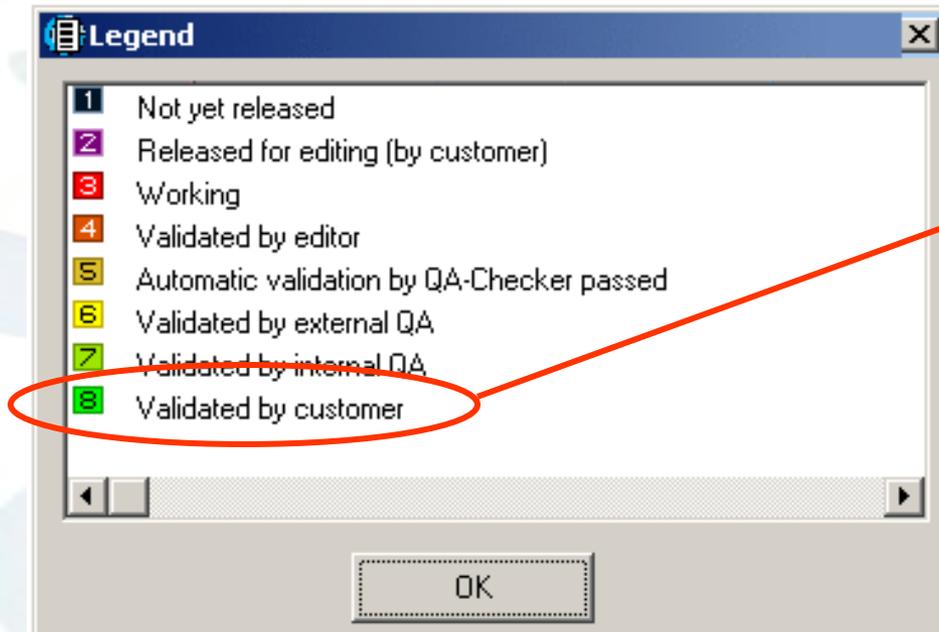
- Form-Fit-Function
- Simplified design
- Critical dimensions



- Professional Online Tools that QA Vendor product catalog
- Ensures the highest quality product is delivered

## Catalog Development in Progress

### Multiple QA States



- Classification
- Approval
- Restriction
- PDM/ERP Integration
- Data Aggregation

- Preferred part
- Approved part
- Blocked part

Data from ERP system    Multiple-site Part Numbers    Technical documentation    Data from PDM system    PARTsolutions

Slotted head cap screw, DIN 912 - M8x16

|    | ERP_PDM_NUMBER<br>DIN Number | LOCATION#<br>Partia | PRICE<br>Price | MATERIAL<br>Material | DESCRIPTION<br>Description | SURFACE<br>Finish | ACTIVE_STATE<br>New State | REQUESTED_STATE<br>Requested State | ID<br>Internal Item | BS<br>Material |
|----|------------------------------|---------------------|----------------|----------------------|----------------------------|-------------------|---------------------------|------------------------------------|---------------------|----------------|
| 77 | M8x16                        | 100005271           | 0.88           | high-grade steel     | Slotted head cap screw     | zinc-plated       | Released                  | Expired                            | 8.000               | 4.773          |
| 78 | M8x16                        | 100005282           | 0.10           | high-grade steel     | Slotted head cap screw     | zinc-plated       | Released                  |                                    | 8.000               | 4.773          |
| 79 | M8x16                        | 100005282           | 0.10           | high-grade steel     | Slotted head cap screw     | zinc-plated       | Released                  |                                    | 8.000               | 4.773          |
| 80 | M8x16                        | 100004562           | 0.88           | high-grade steel     | Slotted head cap screw     | zinc-plated       | Released                  | Expired                            | 8.000               | 4.456          |
| 81 | M8x16                        | 100021500           | 0.07           | high-grade steel     | Slotted head cap screw     | zinc-plated       | Released                  |                                    | 8.000               | 4.456          |
| 82 | M8x16                        | 100004563           | 0.88           | high-grade steel     | Slotted head cap screw     | zinc-plated       | Released                  |                                    | 8.000               | 4.456          |
| 83 | M8x16                        | 100001253           | 0.30           | high-grade steel     | Slotted head cap screw     | zinc-plated       | Released                  | New                                | 8.000               | 4.456          |
| 84 | M8x16                        | 100005295           | 0.88           | high-grade steel     | Slotted head cap screw     | zinc-plated       | Released                  |                                    | 8.000               | 4.456          |
| 85 | M8x16                        | 100002534           | 0.02           | high-grade steel     | Slotted head cap screw     | zinc-plated       | Released                  | Expired                            | 8.000               | 4.456          |
| 86 | M8x16                        | 100002371           | 0.02           | high-grade steel     | Slotted head cap screw     | zinc-plated       | Released                  | New                                | 8.000               | 4.456          |
| 87 | M8x16                        | 100004562           | 0.88           | high-grade steel     | Slotted head cap screw     | zinc-plated       | Released                  | Expired                            | 8.000               | 4.456          |
| 88 | M8x16                        | 100004562           | 0.88           | high-grade steel     | Slotted head cap screw     | zinc-plated       | Released                  | Expired                            | 8.000               | 4.456          |
| 89 | M8x16                        | 100004561           | 0.88           | high-grade steel     | Slotted head cap screw     | zinc-plated       | Released                  | Expired                            | 8.000               | 4.456          |
| 90 | M8x16                        | 100005290           | 0.88           | high-grade steel     | Slotted head cap screw     | zinc-plated       | Released                  |                                    | 8.000               | 4.456          |
| 91 | M8x16                        | 100005295           | 0.88           | high-grade steel     | Slotted head cap screw     | zinc-plated       | Released                  |                                    | 8.000               | 4.456          |
| 92 | M8x16                        | 100000081           | 0.02           | high-grade steel     | Slotted head cap screw     | zinc-plated       | Released                  | New                                | 8.000               | 4.456          |
| 93 | M8x16                        | 100000094           | 0.02           | high-grade steel     | Slotted head cap screw     | zinc-plated       | Released                  | New                                | 8.000               | 4.456          |

ERP    Legacy    Database    Legacy    PDM    PART SOLUTIONS

## Value:

- ✓ Avoid Part Duplication
- ✓ Enforce Company Guidelines
- ✓ Ensure Design Compliance



- Catalog** Search
- PHILIPS PartPedia (4)
    - ISW 3-10 Preferred Data Tools & Measuring Instru
    - ISW 3-63 Extended Assortment PMS Electr(onal)ical
      - ISW 3-63-02 Resistors in use at MRI (3)
      - ISW 3-63-03 Capacitors (1)
      - ISW 3-63-04 Discrete semiconductors, linear IC
      - ISW 3-63-06 Mainsfilters, transformers (3)
      - ISW 3-63-08 Switches and indicators (10)
      - ISW 3-63-09 Relays (3)
        - ISW 3-63-0923 miniature relays (3)
        - ISW 3-63-0925 Relays (2)
          - ISW 3-63-092501 CONTROL RELAY (4)
            - 148555 - relay 3 altern contact
            - 242213201366 - relay 2 altern cont 28
            - 242213205261 - relay 3 altern cont 24
            - 242213206925 - relay 3 altern cont 24
          - ISW 3-63-092502 ACCESSOIRES (3)
        - ISW 3-63-0940 industrial relays (1)
      - ISW 3-63-11 Fuses, fuseholders and knobs (4)
      - ISW 3-63-12 Connectors (33)
      - ISW 3-63-14 Supplies (1)
      - ISW 3-63-24 Mounting and installation material
      - ISW 3-63-25 Lab materials (1)
      - notes
    - ISW 3-81 Preferred Data Materials & Mechanical C
    - ISW 3-86 Preferred Data Electr(onal)ical Component

| Line | ERP_PDM_NUMBER<br>Philips12NC | TEXTDESCR1<br>Description | SUPPLIERMANU<br>Supplier_Manu | ARTNOPCM<br>Artno_PCM | STANDARDNORMS<br>StandardNorms | DIMSKECHFILE<br>DimSketchFile | ISWSHEETFILE<br>ISWSheetFile |
|------|-------------------------------|---------------------------|-------------------------------|-----------------------|--------------------------------|-------------------------------|------------------------------|
| 1    | 2422132013                    |                           |                               |                       |                                |                               | 3-0925.pdf                   |

**PMSN** **RELAYS CONTROL RELAY** **ISW 3-63-0925**

page 1 UK Nov. 2007

article: codenumber: explanation:

relay 3 altern contact

| Tail codeno.   | Coil voltage | PCM             | Frequency [Hz] | Coil I [mA] | Data R | Switch time pick-up | Switch time drop | Location | MRI notes |
|----------------|--------------|-----------------|----------------|-------------|--------|---------------------|------------------|----------|-----------|
| 2422 132 07448 | 24 Vac       | MK3PNS5 24 Vac  | 50/60          | 88.0        | 68 Ω   | 20 ms               | 20 ms            | C16 07 3 | Magnetic  |
| 2422 132 07461 | 24 Vdc       | MK3PNS5 24 Vdc  |                | 56          | 430 Ω  | 30 ms               | 20 ms            | C16 07 1 | Magnetic  |
| 2422 132 07448 | 230 Vac      | MK3PNS5 230 Vac | 50/60          | 10          | 5750 Ω | 20 ms               | 20 ms            | C16 07 2 | Magnetic  |

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Size: 100x100

Photo



Info

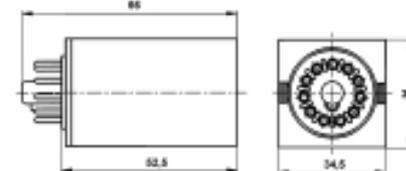




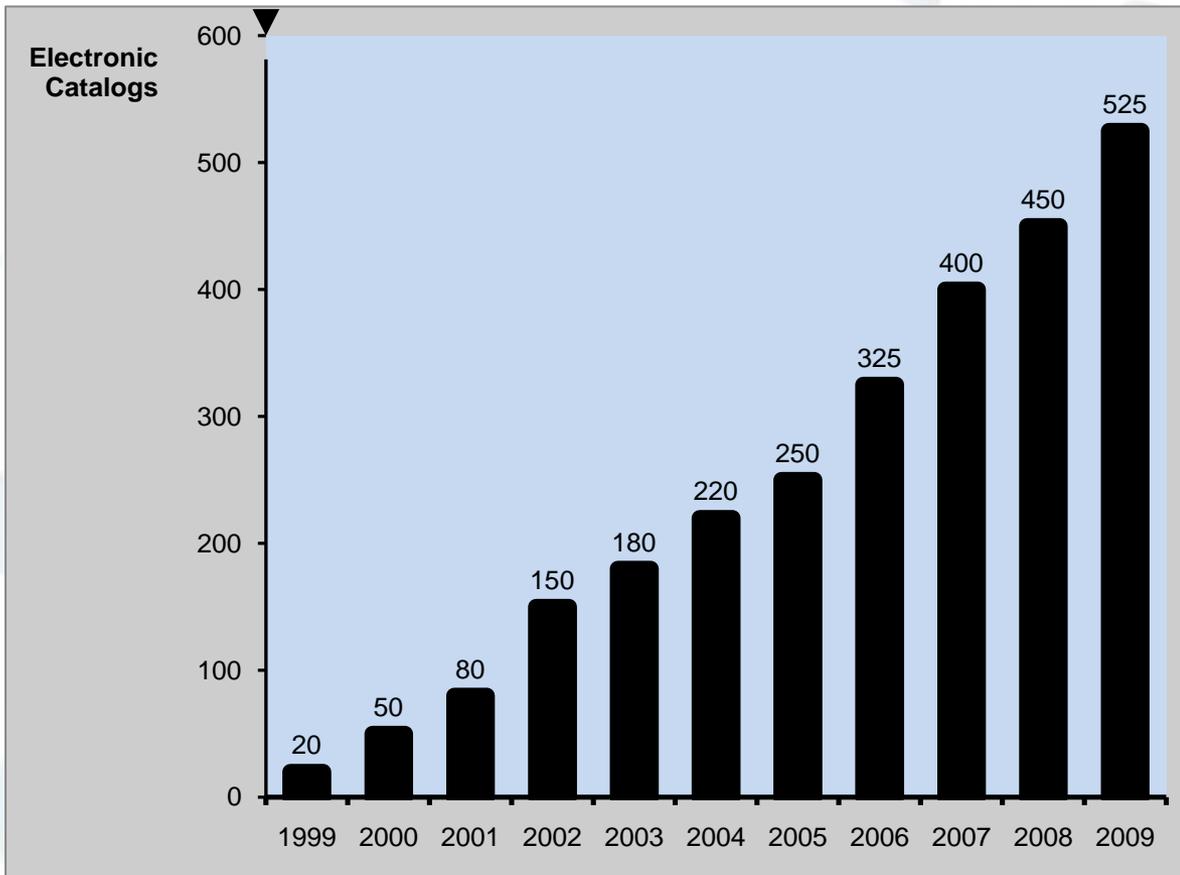

**Characteristic**

- Manufacturer : Omron
- Testvoltage : 2500 Vac
- Nom contactvoltage : 230 Vac
- Nom contactcurrent : 10 A
- Contact material : silver (Ag)
- Number of contacts : 3 alternately
- Ambient temperature : -10 to 40°C
- Life time : min. 10x10<sup>6</sup> switches
- Approvals : UL E41515
- Approvals : CSA LR41408
- Weight : 85 gram
- More specifications see website : [www.omron.com](http://www.omron.com)

the relay is fit for manual operation, integrates a position indicator and is interchangeable with the old-type relay



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  - ✦ Clamps
  - ✦ Cover
  - ✦ Electrical
  - ✦ Nuts
    - ✦ N01 - Nut, Hex, Flange
    - ✦ PN01 - Nuts, Plate
    - ✦ **WN - Weld Nut**
  - ✦ Pins
  - ✦ Rings
  - ✦ Sems

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**Table**

Home ford Nuts WN - Weld Nut

| Row | PN<br>Part Number | FT<br>Feature Type | THD<br>Thread     | T<br>Thickness [mm] | OD<br>Outer Diameter [mm] | ID<br>Inner Diameter |
|-----|-------------------|--------------------|-------------------|---------------------|---------------------------|----------------------|
| 2   | W520714           | With Pilot         | Blank, No Threads | 6.345               | 24.000                    | 8.200                |

Animation

**Preview**

Information

PDF

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| Detail | Status | Name           | Download | Format        | For |
|--------|--------|----------------|----------|---------------|-----|
|        | ✓      | 1F1T-14463-C_8 |          | PDF Datasheet | 2   |
|        | ✓      | PL060X090AE    |          | PDF Datasheet | 2   |

> Legend

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