



Maxos LED inserts for TTX400

4MX400 491 LED66S/840 PSD-CLO DA20 WH

Maxos LED Retrofit for TTX400, LED module, system flux 6600 lm, 840 neutral white, Power supply unit with DALI interface and constant light output, Double asymmetric optic 20°, White

Customers in the industrial and retail sectors are looking for general lighting solutions with a justifiable payback, while meeting all relevant norms for supermarkets and industry applications. For a limited investment, Maxos LED inserts for TTX400 offer best-in-class energy savings while delivering high lux levels at the required color temperatures and glare factors. The minimalistic Maxos LED inserts for TTX400 comprise exchangeable mid-power LED boards to be mounted on a standard TTX400 trunking rail. A choice of wide, medium and double asymmetric beam lenses means flexibility in light distribution. Compared with a conventional fluorescent installation, this highly efficient LED solution offers full payback in less than three years. And the benefits keep coming: our upgradable LED engine platform makes Maxos LED inserts for TTX400 a truly future-proof solution.

Product data

| General Information | |
|--------------------------|---|
| Lamp family code | LED66S [LED module, system flux 6600 lm] |
| Light source replaceable | No |
| Number of gear units | 1 unit |
| Gear | - |
| Driver included | Yes |
| Remarks | *-Per Lighting Europe guidance paper |
| | "Evaluating performance of LED based |
| | luminaires - January 2018": statistically |
| | |

| | there is no relevant difference in lumen | |
|---------------------|--|--|
| | maintenance between B50 and for example | |
| | B10. Therefore, the median useful life (B50) | |
| | value also represents the B10 value. | |
| Service tag | Yes | |
| Product family code | 4MX400 [Maxos LED Retrofit for TTX400] | |
| Lighting Technology | LED | |
| Value ladder | Performance | |
| CE mark | Yes | |

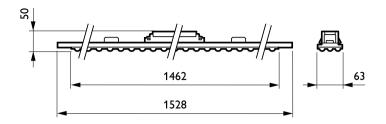
Datasheet, 2024, January 16 data subject to change

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| Marrand May reperded Syeas description Wile FMC mask FMC mask Clear one 40 Ard mon Clear one EM Consulted tool FMC mask FMC mask 41 Ard mon And mon EM Consulted tool FMC mask Consult width 61 Ard mon And mon EM Food Scoroplasm Control FMC montant Control 40 Ard montant Service 50 Ard width 30 Ard montant Service Control Control Floric 400 Dil N And Dil N And Dil N And Dil N Color rendering index (CR) 400 Dil N And Dil N And Dil N And Dil N Color rendering in book (CR) 20 depression And On sectal width And Dil N And Dil N Elem and pol light source 100 depression Protection date IRC Montant Service And Dil N Elem and pol light source 200 depression Initial Archamostry (0.35 a.35) STOCK +3 S Elem and pol light source 200 Service | | | | |
|---|--|---|--|------------------------------------|
| BNEC mark ENEX mark Owneral livength 1,474 mm Glow-wire teet Temperature 650°C, dualion 30 s Overall width 3,57 mm LIE Morkst compliant vs Overall width 3,57 mm Lie Morkst Compliant vs Common filter (height x width x Dopth) 3,67 kit x x474 mm Lie Morkst Compliant 6,000 in Approval and Application P02 pilling-indected. Correlated Color Temperature (Nom) 600 in Mech impact protection code 1602 pill pain-protected. Color creditating for light source 101 centure of the fill | Warranty period | 5 years | Housing Color | White |
| Description Properticator Properticator | Flammability mark | - | Optical cover finish | Clear |
| EV Polity Technical Ves Ownerations (height x width x Depth) 50 x G3 x 13/4 rm Light Technical Conceited Color Temperature (Norm) 5500 um Approval and Application 1500 x G3 x 13/4 rm Conceited Color Temperature (Norm) 4000 x K Approval and Application 1500 x G3 x 13/4 rm Conceited Color Temperature (Norm) 4000 x K Mesh. Impact protection code 1500 p (Prepar-oroected) 1500 x G3 x 13/4 rm 1500 x G3 x | ENEC mark | ENEC mark | Overall length | 1,474 mm |
| | Glow-wire test | Temperature 650 °C, duration 30 s | Overall width | 63 mm |
| Light Technical 6,600 to Mo.00 (A contrained fool of Correlated Color Temperature (Non) (A poly W) Approval and Application 1970 [Finger-printer(leg)] (A poly M) Correlated Color Temperature (Non) (A poly M) 490 (M or M) Mech impact protection code (A poly 2) standard] 1970 [Finger-printer(leg)] (A poly 2) standard] Whether of light sources (A poly status) 240 (A poly 4) and Application 364 (V c) 2 (J c) and (A poly 4) (A po | EU RoHS compliant | Yes | Overall height | 50 mm |
| Luminous Flux 6,600 ln Approval and Application Impress protection code IP (P) (P) (P) (P) (P) (P) (P) (P) (P) (P | | | Dimensions (Height x Width x Depth) | 50 x 63 x 1474 mm |
| Cerelated Color Emperature (Nom) 490 N (M) Medit Impact oction code P30 [Finger-protected] Luminous Efficacy (taskel) (Nom) 190 Im/W Medit Impact optection code 1902 [15] sandaria] Color rendering in lock (ER) 280 Status of tight sources 150 ct (15) ct | Light Technical | | | |
| Luminous Efficacy (rated) (Nom) 169 lm/W Mech. impact protection code №20 (20 2 standard) Color rendering Index (CRI) 880 sostanianbility rating | Luminous Flux | 6,600 lm | Approval and Application | |
| Color rendering index (CRI) 880 Sustainability rating − Protection class IEC Selfiely class I Beam amagin of light sources 10 degree(s) − Initial Performance (IEC Compliant) − Initial Performance (IEC Compliant) Optict yope 0-bubbe asymmetric optic 20° Imminish tu tolerance √-10% Optical cover type 0-bubbe asymmetric optic 20° tuminous flux tolerance √-10% Unified glar rating CRI 20° Power consumption tolerance √-10% Operating and Electrical 20° Over Time Performance (IEC Compliant) Control gear failure rate at median useful 5% Input Voltage 20°-240 V Control gear failure rate at median useful 5% Intuital CLO power consumption 35 6 W Control gear failure rate at median useful 5% Insush time 10 A Lumen maintenance at median useful 10 % Power Cator (Fraction) 9.78 Lumen maintenance at median useful life* 10 % Cable 10 A Lumen maintenance at median useful life* 10 % Power Cator (Fraction) 9.78 Production selectric per at median useful life* 10 % | Correlated Color Temperature (Nom) | 4000 K | Ingress protection code | IP20 [Finger-protected] |
| Number of light sources 1 Ordegree(s) Production class IEC Safety class ICC Safety c | Luminous Efficacy (rated) (Nom) | 169 lm/W | Mech. impact protection code | IKO2 [0.2 J standard] |
| Beam angle of light source color 20 degree(s) Initial Performance (IEC Complian)** Optical cover type Poulter symmetric optic 20° Lumbnous flux tolerance 4-10% Optical cover type Polymetryl methacrylate bowl/cover Initial chromaticity (0.38, 0.38) SDCM <-3.5 | Color rendering index (CRI) | ≥80 | Sustainability rating | - |
| Light source color 840 neutral white Initial Performance (IEC Compliant) Optic type Double asymmetric optic 20° Luminous flux tolerance √-10% Optical cover type Polymethyl methacrylate bowl/cover Imitial chromatic light barn spread 20° Unified glare rating CEN Not applicable -/-10% Correct glare rating CEN Input Voltage 220-240 V Control gear failure rate at median useful. If % Line Frequency 50 to 60 Hz Control gear failure rate at median useful. If % Average CLO power consumption 35 6 W Lumen maintenance at median useful. If % Average CLO power consumption 40 1W Lumen maintenance at median useful. If % 10 0 Average CLO power consumption 39 W 100000 h Lumen maintenance at median useful. If % 10 0 Power Consumption 97 Lumen maintenance at median useful. If % 10 0 Control gear failure rate at median useful. If % 10 0 10 0 Power Consumption 97 Lumen maintenance at median useful. If % 10 0 Control freactor (Factor) 97 Application Conditions 10 0 | Number of light sources | 1 | Protection class IEC | Safety class I |
| Optic type Double asymmetric optic 20° Luminous flux tolerance √-/ 10% Opticat over type Polymethyl methacrylate bowl/cover Initial chromaticity (38, 0.38) SDCM -3.5 Umfinde glaar earting CEN Not applicable 7-/ 10% Operating and Electrical 200-240 V Initial Companie (IEC compiler) Line Frequency 350 650 Hz Control gear failure rate at median useful life* 0 % Initial CLO power consumption 351 M2 Lumen maintenance at median useful life* 1.90 Average CLO power consumption 21 A Lumen maintenance at median useful life* 1.90 Power Factor (Fraction) 39 W 1.00000 h | Beam angle of light source | 120 degree(s) | | |
| Optical cover type Polymethyl methacrylate bowl/cover Initial chromaticity (0.38.0.38) SDCM <3.5 | Light source color | 840 neutral white | Initial Performance (IEC Compliant) | |
| Luminaire light beam spread 20" Power consumption tolerance √-10% Unified glare rating CEN Not applicable Cover Time Performance (IEC Compilant) Operating and Electrical 200-240 V Control gear failure rate at median useful. If 5 % % Secondary Injust Voltage 220-240 V Life 50000 h Control gear failure rate at median useful. If 6 % % Secondary Intrust Curpower consumption 35 ft W Lumen maintenance at median useful. Iffe 6 10000 h % Secondary Inrush turrent 21 A Secondo h Lumen maintenance at median useful. Iffe 6 10000 h % Secondary Power Consumption 29 M Lumen maintenance at median useful. Iffe 6 10000 h % Secondary % Secondary Power Factor (Fraction) 29 T Application Conditions Lumen maintenance at median useful. Iffe 6 10000 h % Secondary Cannection Connection Application Conditions Power Consumption Application Conditions Temperature 4 Application Conditions % Secondary % Secondary Temperature range 20 to -35 °C Maximum din level % % Secondary Con | Optic type | Double asymmetric optic 20° | Luminous flux tolerance | +/-10% |
| Unified glare rating CEN Not applicable Operating and Electrical Control gear failure rate at median useful life 50000 h 5 (Control gear failure rate at median useful life 50000 h 5 (Control gear failure rate at median useful life 50000 h 1 (Control gear failure rate at median useful life 50000 h 1 (Control gear failure rate at median useful life 50000 h 1 (Control gear failure rate at median useful life 50000 h 1 (Control gear failure rate at median useful life 50000 h 1 (Control gear failure rate at median useful life 50000 h 1 (Control gear failure rate at median useful life 50000 h 1 (Control gear failure rate at median useful life 50000 h 1 (Control gear failure rate at median useful life 50000 h 1 (Control gear failure rate at median useful life 50000 h 1 (Control gear failure rate at median useful life 50000 h 1 (Control gear failure rate at median useful life 50000 h 1 (Control gear failure rate at median useful life 50000 h 1 (Control gear failure rate at median useful life 50000 h 1 (Control gear failure rate at median useful life 50000 h 1 (Control gear failure rate at median useful life 50000 h 1 (Control gear failure rate at median useful life 50000 h 1 (Control gear failure rate at median useful life 50000 h 1 (Control gear failure rate at median useful life 50000 h 1 (Control gear failure rate at median useful life 50000 h 1 (Control gear failure rate at median useful life 50000 h 2 (Control gear failure rate at median useful life 50000 h 2 (Control gear failure rate at median useful life 50000 h | Optical cover type | Polymethyl methacrylate bowl/cover | Initial chromaticity | (0.38, 0.38) SDCM <3.5 |
| Operating and Electrical Control gear failure rate at median useful 1 5% (control gear failure rate at median useful 1 10% (control | Luminaire light beam spread | 20° | Power consumption tolerance | +/-10% |
| Operating and Electrical Control gear failure rate at median useful 1 5% 5% Line Frequency 50 to 60 Hz tife 50000 h 0 % Line Frequency 50 to 60 Hz Control gear failure rate at median useful 1 0 % 0 % Merage CLO power consumption 40 til W Lumen maintenance at median useful tife* 1 L90 190 Inrush current 21 A 50000 h 100000 h 1000000 h 10000000 h 1000000 h 10000000 h 10000000 h 10000000 h 10000000 h 10000000 h 10000000 h 1000000000000000000000000000000000000 | Unified glare rating CEN | Not applicable | | |
| Input Voltage 200-240 V life 50000 h Iffe 500000 h Iffe 50000 h Iffe 500000 h Iffe 50000 h Iffe 50000 h | | | Over Time Performance (IEC Compliant) | |
| Line Frequency 50 to 60 Hz Control gear failure rate at median useful. 10% 10% Initial CLO power consumption 35.6 W life 100000 h Lumen maintenance at median useful life* 100 Long to maintenance at media | Operating and Electrical | | Control gear failure rate at median useful | 5 % |
| Initial CLO power consumption 35.6 W Ifife 100000 h Ifife 1000000 h Ifife 10000000 h Ifife 1000000000000000000000000000000000000 | Input Voltage | 220-240 V | life 50000 h | |
| Lumen maintenance at median useful life 5000 h 50000 h 500000 h 5000000 h 500000 h 500000 h 500000 h 500000 h 500000 h 5000000 h 50000000 h 50000000000 | Line Frequency | 50 to 60 Hz | Control gear failure rate at median useful | 10 % |
| Trush current 21 A 20000 h 20000 h 20000 h 20000 h 200000 h 2000000 h 20000000000 | Initial CLO power consumption | 35.6 W | life 100000 h | |
| Lumen maintenance at median useful life L80 L80 | Average CLO power consumption | 40.1 W | Lumen maintenance at median useful life* | L90 |
| Power Consumption 39 W 100000 h Power Factor (Fraction) 0.97 Connection Connection unit 5-pole Application Conditions Cable - Maximum dim level ½ Number of products on MCB of 16 A type B 24 Maximum dim level ½ Temperature Product Data Temperature Product Data Controls and Dimming Product Data WH Dimmable Yes Full product name 4MX400 491 LED66S/840 PSD-CLO DA20 Diver/power unit/transformer Power supply unit with DALI interface and constant light output Full product code 871869697018899 Control interface DALI Material Nr. (12NC) 910500460113 Constant light output Material Nr. (12NC) 910500460113 Mechanical and Housing Full product code 8718696970188 Housing Material Steel Numerator - Quantity Per Pack 1 Brown of the product of the produ | Inrush current | 21 A | 50000 h | |
| Power Factor (Fraction) 0.97 | Inrush time | 0.28 ms | Lumen maintenance at median useful life* | L80 |
| Connection Connection unit 5-pole Cable - Performance ambient temperature Tq 25 °C Mumber of products on MCB of 16 A type B 24 Maximum dim level 1% Suitable for random switching Not applicable Product Data Order product name 4MX400 491 LED665/840 PSD-CLO DA20 WH Controls and Dimming Dimmable Yes Driver/power unit/transformer Power supply unit with DALI interface and constant light output Constant light output Constant light output Yes Constant light output Yes Maximum dim level 1% Suitable for random switching Not applicable Product Data Order product name 4MX400 491 LED665/840 PSD-CLO DA20 WH Full product name 4MX400 491 LED665/840 PSD-CLO DA20 WH Full product name 4MX400 491 LED665/840 PSD-CLO DA20 WH Full product code 871869697018899 Order code 910500460113 Material Nr. (12NC) 910500460113 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718696970188 Numerator - Packs per outer box 3 EAN/UPC - Case 8718696971048 | Power Consumption | 39 W | 100000 h | |
| Cable Number of products on MCB of 16 A type B 24 Maximum dim level Fremperature Ambient temperature range -20 to +35 °C Product Data Order product name MMX400 491 LED66S/840 PSD-CLO DA20 WH Full product name 4MX400 491 LED66S/840 PSD-CLO DA20 WH Full product name 4MX400 491 LED66S/840 PSD-CLO DA20 WH Full product name 4MX400 491 LED66S/840 PSD-CLO DA20 WH Full product name 4MX400 491 LED66S/840 PSD-CLO DA20 WH Full product code 571869697018899 Control interface DALI Constant light output Yes Material Nr. (12NC) Numerator - Quantity Per Pack Fan/UPC - Product/Case 8718696970188 Numerator - Packs per outer box 3 Reflector material Optic material Polymethyl methacrylate Optical cover material Polymethyl methacrylate Optical cover material Polymethyl methacrylate | Power Factor (Fraction) | 0.97 | | |
| Mumber of products on MCB of 16 A type B 24 Maximum dim level 1% Suitable for random switching Not applicable Temperature Ambient temperature range -20 to +35 °C Product Data Order product name 4MX400 491 LED665/840 PSD-CLO DA20 WH Controls and Dimming WH Dimmable Yes Prower supply unit with DALI interface and constant light output Control interface DALI Constant light output Yes Material Nr. (12NC) 910500460113 Mechanical and Housing Housing Material Steel Reflector material Optic material Polymethyl methacrylate Optical cover material Polymethyl methacrylate Optical cover material Polymethyl methacrylate | Connection | Connection unit 5-pole | Application Conditions | |
| Suitable for random switching Not applicable Temperature Ambient temperature range -20 to +35 °C Product Data Order product name 4MX400 491 LED665/840 PSD-CLO DA20 WH Controls and Dimming Dimmable Yes Prull product name 4MX400 491 LED665/840 PSD-CLO DA20 WH Full product name 4MX400 491 LED665/840 PSD-CLO DA20 WH Full product code 871869697018899 Control interface DALI Constant light output Yes Material Nr. (12NC) Material Nr. (12NC) 910500460113 Numerator - Quantity Per Pack 1 Mechanical and Housing Housing Material Steel Reflector material Polymethyl methacrylate Optic acover material Polymethyl methacrylate Polymethyl methacrylate Suitable for random switching Not applicable Not applicable Amapplicable Amapplicable NH Amapplicable Amix400 491 LED665/840 PSD-CLO DA20 WH Full product code 871869697018899 1 EAN/UPC - Product/Case 8718696970188 Fanyupc - Packs per outer box 3 EAN/UPC - Case 8718696971048 | Cable | - | Performance ambient temperature Tq | 25 °C |
| Temperature Ambient temperature range -20 to +35 °C Controls and Dimming Dimmable Yes Driver/power unit/transformer Power supply unit with DALI interface and constant light output Control interface DALI Constant light output Yes Mechanical and Housing Housing Material Steel Reflector material Order code Dolymethyl methacrylate Optical cover material Product Data Product name 4MX400 491 LED665/840 PSD-CLO DA20 WH Full product name 4MX400 491 LED665/840 PSD-CLO DA20 WH Full product code 871869697018899 Order code 910500460113 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718696970188 EAN/UPC - Case 8718696971048 | Number of products on MCB of 16 A type | B 24 | Maximum dim level | 1% |
| Ambient temperature range | | | Suitable for random switching | Not applicable |
| Controls and Dimming Dimmable Yes Power supply unit with DALI interface and constant light output Control interface DALI Constant light output Yes Material Nr. (12NC) Numerator - Quantity Per Pack Housing Material Steel Numerator - Packs per outer box Reflector material Optical cover material Polymethyl methacrylate Optical cover material Polymethyl methacrylate Order product name AMX400 491 LED665/840 PSD-CLO DA20 WH Full product code 871869697018899 Full product code 871869697018899 Material Nr. (12NC) 910500460113 FAN/UPC - Product/Case 8718696970188 BAN/UPC - Case 8718696971048 | Temperature | | | |
| Controls and DimmingWHDimmableYesFull product name4MX400 491 LED66S/840 PSD-CLO DA20Driver/power unit/transformerPower supply unit with DALI interface and constant light outputFull product code871869697018899Control interfaceDALIOrder code910500460113Constant light outputYesMaterial Nr. (12NC)910500460113Mechanical and HousingNumerator - Quantity Per Pack1Housing MaterialSteelNumerator - Packs per outer box3Reflector material-EAN/UPC - Case8718696971048Optic materialPolymethyl methacrylateEAN/UPC - Case8718696971048 | Ambient temperature range | -20 to +35 °C | Product Data | |
| Dimmable Yes Full product name 4MX400 491 LED66S/840 PSD-CLO DA20 WH Power supply unit with DALI interface and constant light output Full product code 871869697018899 Control interface DALI Order code 910500460113 Constant light output Yes Material Nr. (12NC) 910500460113 Mechanical and Housing EAN/UPC - Product/Case 8718696970188 Reflector material Steel Numerator - Packs per outer box 3 EAN/UPC - Case 8718696971048 EAN/UPC - Case 8718696971048 | | | Order product name | 4MX400 491 LED66S/840 PSD-CLO DA20 |
| Driver/power unit/transformer Power supply unit with DALI interface and constant light output Control interface DALI Constant light output Yes Material Nr. (12NC) Material Nr. (12NC) Product/Case Minerator - Quantity Per Pack FAN/UPC - Product/Case Minerator - Packs per outer box Reflector material Polymethyl methacrylate Optical cover material Polymethyl methacrylate Polymethyl methacrylate Polymethyl methacrylate Polymethyl methacrylate Polymethyl methacrylate MH WH S71869697018899 Material Nr. (12NC) 910500460113 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718696970188 EAN/UPC - Case 8718696971048 | Controls and Dimming | | | WH |
| Control interface DALI Constant light output Yes Material Nr. (12NC) 910500460113 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718696970188 Reflector material - Numerator - Packs per outer box 3 Reflector material Polymethyl methacrylate Optical cover material Polymethyl methacrylate Polymethyl methacrylate Polymethyl methacrylate | Dimmable | Yes | Full product name | 4MX400 491 LED66S/840 PSD-CLO DA20 |
| Control interface DALI Constant light output Yes Material Nr. (12NC) 910500460113 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718696970188 Housing Material Steel Reflector material - Optic material Polymethyl methacrylate Optical cover material Polymethyl methacrylate | Driver/power unit/transformer | Power supply unit with DALI interface and | | WH |
| Constant light output Yes Material Nr. (12NC) 910500460113 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718696970188 Numerator - Packs per outer box 3 Reflector material - Optic material Polymethyl methacrylate Optical cover material Polymethyl methacrylate | | constant light output | Full product code | 871869697018899 |
| Numerator - Quantity Per Pack 1 Mechanical and Housing Housing Material Steel Steel Numerator - Packs per outer box 3 Reflector material - EAN/UPC - Case 8718696970188 Optic material Polymethyl methacrylate Optical cover material Polymethyl methacrylate | Control interface | DALI | Order code | 910500460113 |
| Mechanical and Housing Housing Material Steel Reflector material - Optic material Polymethyl methacrylate Optical cover material Polymethyl methacrylate | Constant light output | Yes | Material Nr. (12NC) | 910500460113 |
| Housing Material Steel Numerator - Packs per outer box 3 Reflector material - Optic material Polymethyl methacrylate Optical cover material Polymethyl methacrylate | | | Numerator - Quantity Per Pack | 1 |
| Reflector material - EAN/UPC - Case 8718696971048 Optic material Polymethyl methacrylate Optical cover material Polymethyl methacrylate | Mechanical and Housing | | EAN/UPC - Product/Case | 8718696970188 |
| Optic material Polymethyl methacrylate Optical cover material Polymethyl methacrylate | Housing Material | Steel | Numerator - Packs per outer box | 3 |
| Optical cover material Polymethyl methacrylate | Reflector material | - | EAN/UPC - Case | 8718696971048 |
| | Optic material | Polymethyl methacrylate | | |
| Fixation material Steel | Optical cover material | Polymethyl methacrylate | | |
| | Fixation material | Steel | | |
| | | | | |

Maxos LED inserts for TTX400

Dimensional drawing





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