

Description:

RaceHorse 230V Series, Electronic Ballasts, Programmed Preheat-Start, Cut-Off Technology, Thermal Protection, End-Of-Life (EOL) Protection, High Power Factor due to Active Power Factor Control (APFC) Technology.

RaceHorse 230V Serie, Elektronische Vorschaltgeräte (EVG), Programmierter Warm-Start, Cut-Off Technologie, Wärmeschutz, Sicherheitsabschaltung bei defekten Lampen, hoher Leistungsfaktor durch APFC- Technologie.

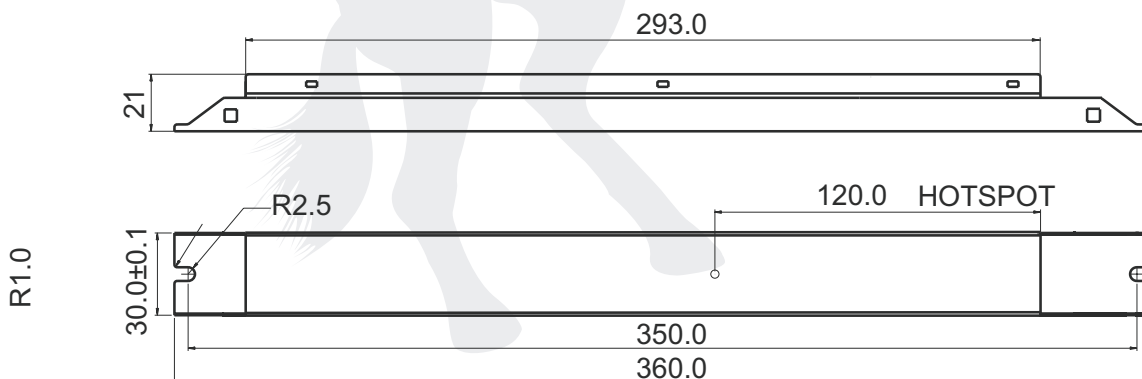
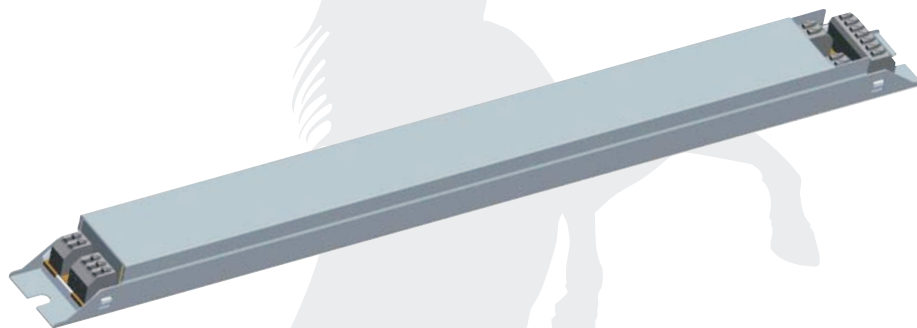
This Ballast Will Operate Following Lamps:

Please refer to Lamp List

Mechanical Data:

RHD-230-414-L-T5

Designed and Manufactured by Fulham Company



Fulham Company extends limited warranty only to the original purchaser or to the first user for the period of **5 years** from the date of manufacture as indicated by the date code stamped on each product and when properly installed and under normal conditions of use.

DUE TO A PROGRAM OF CONTINUOUS IMPROVEMENT, FULHAM Co., INC RESERVES THE RIGHT TO MAKE ANY VARIATION IN DESIGN OR CONSTRUCTION TO THE EQUIPMENT DESCRIBED.

Fulham Co., Inc. Address: 12705 South Van Ness Ave., Hawthorne, CA 90250 Tel.: 1-323-599-5000 Fax.: 1-323-754-9060 Website: www.fulham.com

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Fulham Company GmbH Adresse: Karolinenstrasse 18, D-58507 Lüdenscheid, Germany Fon: +49 2351 4327416 Fax: +49 2351 6567349 Handelsregister Iserlohn: HR B 6286

Electrical Data:

Input Voltage [V]	Versorgungsspannung [V]	220 - 240
Power Line Frequency [Hz]	Netzfrequenz [Hz]	50 / 60
Input Voltage Range [V]	Wechsel-/Eingangsspannungsbereich [V]	(-10%) 198 - 264 (+10%)
Maximum Line Current [A]	Max. Leistungsstrom [A]	a) - e): 0,270
Input Wattage (Lamp+Ballast) [W]	Systemleistung (Lampe+EVG) [W]	a) - e): 63
Input Power Factor (PF) [β]	(Eingangs-) LeistungsFaktor [β]	a) - e): 0,98
Line Current Harmonics (THD) [%]	Korrigierte Netzstrom Oberschwingungen [%]	<10
In Rush Current [A]/Start-Up Current	Einschaltstrom [A]	
Dimming Interface	1 bis 10 V Schnittstelle	1V to 10V
Lamp Designation System	Lampenbezeichnungssystem	ZVEI - LBS
a) Numbers / Lamp Types Operated / Lumens [lm]	a) Lampen: Anzahl / Name / Leistung / Lichtstrom [lm]	4 x T16 14 W / 4x1.200 lm
b) Numbers / Lamp Types Operated / Lumens [lm]	b) Lampen: Anzahl / Name / Leistung / Lichtstrom [lm]	
c) Numbers / Lamp Types Operated / Lumens [lm]	c) Lampen: Anzahl / Name / Leistung / Lichtstrom [lm]	
d) Numbers / Lamp Types Operated / Lumens [lm]	d) Lampen: Anzahl / Name / Leistung / Lichtstrom [lm]	
e) Numbers / Lamp Types Operated / Lumens [lm]	e) Lampen: Anzahl / Name / Leistung / Lichtstrom [lm]	
Dimmable	Dimmbar	☒ Yes ☐ No
Dimming Range	Dimmbar von ... Bis	Min. 3% Max. 100%
Lamp Operating Frequency [KHz]	Lampenbetriebsfrequenz [kHz]	>40
Ignition Method (PH, RS or IS)	Startmechanismus	☒ PH ☐ RS ☐ IS
Preheat Time [S]	Vorheizzeit [S]	0,4 < PT < 1,5
Lamp Current Crest Factor (CCF)	Lampenstromspitzenfaktor	< 1,7
Ballast (Lumen) Factor (BLF)	Ballast Lumen Faktor (BLF)	1
Automatic restart after lamp change	Autom. Wiederstart nach Lampenwechsel	☒ Yes ☐ No
Thermal Protection (EN 61347-2-3)	Wärmeschutz (EN 61347-2-3)	☒ Yes ☐ No
End Of Life (EOL) Protection	Sicherheitsabschaltung bei Lampendefekt	☒ Yes ☐ No
Suitable for luminaires with protection class	Schutzklasse der Leuchten	☒ I ☒ II
Suitable for luminaires with F-, M- or MM-Mark	Geeignet für Leuchten mit F-, M-, MM-Zeichen	☒ F ☒ M ☒ MM
Master Carton Quantity	Menge im Masterkarton	20
Label	Etikettengestaltung	☒ Fulham ☐ Private
Weight [gr]	Gewicht [gr]	260
Case Dimensions-Length with Mount [mm]	Gehäusemass - Gesamt [mm]	L 360
Case Dimensions-Length w/o Mount [mm]	Gehäusemass - Befestigungsabstand [mm]	L 360 (self cutting blocks)
Case Dimensions-Length betw. mounting holes [mm]	Gehäusemass - Abstand Befestigungslöcher [mm]	L 350
Case Dimensions-Width [mm]	Gehäusemass - Breite [mm]	W 30
Case Dimensions-Height [mm]	Gehäusemass - Höhe [mm]	H 21 (super slim)
Case Material	Gehäusematerial	Metal
Primary strip length [mm]	Abisolierlänge Primärseitig [mm]	Min. 8 ... Max. 11
Secondary strip length [mm]	Abisolierlänge Sekundärseitig [mm]	Min. 8 ... Max. 11
Permissible cable lengths --- Hot wires [m]	Gestattete Leitungslänge - Hot [m]	0.8
Permissible cable lengths --- Cold wires [m]	Gestattete Leitungslänge - Cold [m]	2
EEI Classification	EEI Klassifizierung	EEI = A1, (EEI=A2 at dimming volt 10V)
CE (with compliance RoHS)	CE (mit RoHS Tauglichkeit)	EN 61347-2-3
EMC Immunity	Immunität	EN 61547
Harmonic Content	Oberwellengehalt	IEC / EN 61000-3-2
Radio Interference Suppression	Funkentstörung	DIN VDE 0875/EN 55015 / EN55022
Performance ENEC	ENEC Prüfzeichen	IEC EN 60929
Approval Mark	Prüfzeichen	ENEC, VDE
Max. Case Hot Spot Temperature [°C]	Zulässige Gehäusetemperatur tc [°C]	+ 70
Max. Case Temperature in case of Failure [°C]	Max. Gehäusetemperatur im Fehlerfall [°C]	+110
Min. Ambient Temperature [°C]	Min. Umgebungstemperatur ta [°C]	+ 10
Max. Ambient Temperature [°C]	Max. Umgebungstemperatur ta [°C]	+ 50
Min. Storage Temperature [°C]	Min. Lagerungstemperatur [°C]	- 40
Max. Storage Temperature [°C]	Max. Lagerungstemperatur [°C]	+ 85
Product Life [h]	Produktlebensdauer [Std]	50,000
Reliability [%]	Zuverlässigkeit [%]	90
Warranty [Years]	Garantiezeit [Jahre]	5



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