



for a greener tomorrow

FR-A800-E HIGH PERFORMANCE

Special frequency inverter for industrial engineering and plant construction



- Simple commissioning
- High performance
- Reliability
- Predictive Maintenance

Solution

- Special functions for engineering and plant construction integrated in the frequency inverter:
 - Vector control
 - Servo functionality
 - Positioning
 - Networkability
 - Firmly integrated crane functions Anti Sway
- Simple commissioning, high functionality, and long service life
- Integral PLC in the inverter
- Integrated safety functions (STO)
- Innovative autotuning functions for asynchronous and synchronous motors
- Braking without brake resistor
- Extended PID control
- Smart Condition Monitoring matched to our FR-A800-E, with clear text display for predictive maintenance and shutdown planning

With every first purchase of a FR-A800-E, one LU08 plain text display per customer is delivered free.*



The LU08 is a plain text display for the A800 and F800 frequency inverters. Thanks to its convenient operation, it permits simple commissioning. The integral "Digital Dial" of the operating unit gives the user direct access to all important parameters and to pre-configured functions such as the Easy Setup. The panel provides full text displays in up to 15 languages, plus a real-time clock.

* When ordering, please indicate "LU08 campaign". This offer is valid until 31.12.2018

FR-A800-E – High Performance

Added value

- Designed for at least 10 years of service
- More than 300 functional tests during production
- Top quality with a standard 3-year warranty starting from date of production
- FR Configurator commissioning tool complete with programming software for the integral PLC in the frequency inverter can be downloaded free from MyMitsubishi
- 12 different networking options
- Intelligent maintenance functions such as maintenance timer and tests of capacitor/ventilator
- In-house semiconductor development and production



Ordering data

All further data and ordering information is provided in our "FR Family" catalog, which you can access with the following QR code:



Overview of FR-A800-E frequency inverters

ART.-NO.	TYPE	SHORT DESCRIPTION
297566	FR-A840-00023-E2-60	Inverter AC; Pn: 0,25-0,75kW; 3x380-500V; In max: 2,3A;(0,4kW; 1,5A); IP20
297567	FR-A840-00038-E2-60	Inverter AC; Pn: 0,4-1,5kW; 3x380-500V; In max: 3,8A;(0,75kW; 2,54A); IP20
297568	FR-A840-00052-E2-60	Inverter AC; Pn: 0,75-2,2kW; 3x380-500V; In max: 5,2A;(1,5kW; 4A); IP20
297569	FR-A840-00083-E2-60	Inverter AC; Pn: 1,5-3,7kW; 3x380-500V; In max: 8,3A;(2,2kW; 6A); IP20
297570	FR-A840-00126-E2-60	Inverter AC; Pn: 2,2-5,5kW; 3x380-500V; In max: 12A;(3,7kW; 9A); IP20
297571	FR-A840-00170-E2-60	Inverter AC; Pn: 3,7-7,5kW; 3x380-500V; In max: 17A;(5,5kW; 12A); IP20
297572	FR-A840-00250-E2-60	Inverter AC; Pn: 5,5-11kW; 3x380-500V; In max: 25A;(7,5kW; 17A); IP20
297573	FR-A840-00310-E2-60	Inverter AC; Pn: 7,5-15kW; 3x380-500V; In max: 31A;(11kW; 23A); IP20
297574	FR-A840-00380-E2-60	Inverter AC; Pn: 11-18,5kW; 3x380-500V; In max: 38A;(15kW; 31A); IP20
297575	FR-A840-00470-E2-60	Inverter AC; Pn: 15-22kW; 3x380-500V; In max: 47A;(18,5kW; 38A); IP20
297576	FR-A840-00620-E2-60	Inverter AC; Pn: 18,5-30kW; 3x380-500V; In max: 62A;(22kW; 44A); IP20
297577	FR-A840-00770-E2-60	Inverter AC; Pn: 22-37kW; 3x380-500V; In max: 77A;(30kW; 57A); IP00

Note: From FR-A840-01800 upwards, a DC link choke must be used.

ART.-NO.	TYPE	SHORT DESCRIPTION
297578	FR-A840-00930-E2-60	Inverter AC; Pn: 30-45kW; 3x380-500V; In max: 93A;(37kW; 71A); IP00
297579	FR-A840-01160-E2-60	Inverter AC; Pn: 37-55kW; 3x380-500V; In max: 116A;(45kW; 86A); IP00
297580	FR-A840-01800-E2-60	Inverter AC without DC Choke; Pn: 45-90kW; 3x380-500V; In max: 180A;(55kW; 110A); IP00
297581	FR-A840-02160-E2-60	Inverter AC without DC Choke; Pn: 55-110kW; 3x380-500V; In max: 216A;(75kW; 144A); IP00
297582	FR-A840-02600-E2-60	Inverter AC without DC Choke; Pn: 75-132kW; 3x380-500V; In max: 260A;(90kW; 180A); IP00
297583	FR-A840-03250-E2-60	Inverter AC without DC Choke; Pn: 90-160kW; 3x380-500V; In max: 325A;(110kW; 216A); IP00
297584	FR-A840-03610-E2-60	Inverter AC without DC Choke; Pn: 110-185kW; 3x380-500V; In max: 361A;(132kW; 260A); IP00
297585	FR-A840-04320-E2-60	Inverter AC without DC Choke; Pn: 132-220kW; 3x380-500V; In max: 432A;(160kW; 325A); IP00
297586	FR-A840-04810-E2-60	Inverter AC without DC Choke; Pn: 160-250kW; 3x380-500V; In max: 481A;(185kW; 361A); IP00
297587	FR-A840-05470-E2-60	Inverter AC without DC Choke; Pn: 185-280kW; 3x380-500V; In max: 547A;(220kW; 432A); IP00
297588	FR-A840-06100-E2-60	Inverter AC without DC Choke; Pn: 220-315kW; 3x380-500V; In max: 610A;(250kW; 481A); IP00
297589	FR-A840-06830-E2-60	Inverter AC without DC Choke; Pn: 250-355kW; 3x380-500V; In max: 683A;(280kW; 547A); IP00

European Offices

Mitsubishi Electric Europe B.V. D-40882 Ratingen Phone: +49 (0)2102 / 486-0	Germany	Mitsubishi Electric (Russia) LLC 2 bld. 1, Leningovskaya st. RU-15114 Moscow Phone: +7 495 721 2070	Russia
Mitsubishi Electric Europe B.V. Pražská 621/7 CZ-1155 00 Praha 5 Phone: +420 255 719 200	Czech Rep.	Mitsubishi Electric Europe B.V. Carretera de Rubí 76-80 Jpda. 430 E-08190 Sant Cugat del Valles (Barcelona) Phone: +34 (0) 93 / 5653131	Spain
Mitsubishi Electric Europe B.V. 25, Boulevard des Bouvets F-92741 Nanterre Cedex Phone: +33 (0) 1 55 68 55 68	France	Mitsubishi Electric Europe B.V. (Scandinavia) Hedvig Møllers gata 6 SE-223 55 Lund Phone: +46 (0) 8 625 10 00	Sweden
Mitsubishi Electric Europe B.V. Viale Colonnari 7 Palazzo Sirio I-20864 Agrate Brianza (MB) Phone: +39 (0) 39 / 60 53 1	Italy	Mitsubishi Electric Turkey Elektrik Ürünleri A.Ş. Serifali Mahallesi Nutuk Sokak No:5 TR-34775 Ümraniye-İSTANBUL Phone: +90 (216) 969 25 00	Turkey
Mitsubishi Electric Europe B.V. Vespugue Business Park, Ballymount IR-Dublin 24 Phone: +353 (0) 1 4198800	Ireland	Mitsubishi Electric Europe B.V. Travelers Lane UK-Hatfield, Herts. AL10 8XB Phone: +44 (0)1707 / 28 87 80	UK
Mitsubishi Electric Europe B.V. Nijverheidsweg 23C NL-3641RP Mijdrecht Phone: +31 (0) 297 250 330	Netherlands	Mitsubishi Electric Europe B.V. Dubai Silicon Oasis United Arab Emirates - Dubai Phone: +971 4 3724716	UAE
Mitsubishi Electric Europe B.V. ul. Krakowska 50 PL-32-083 Balice Phone: +48 (0) 12 347 65 00	Poland		

Representatives

GEVA Wiener Straße 89 A-2500 Baden Phone: +43 (0)2252 / 85 55 20	Austria	Electrobit OÜ Pärnu mnt. 160 EST-11317, Tallinn Phone: +372 6518 140	Estonia	ALFATRADE Ltd. 99, Paola Hill Malta-Paola PLA 1702 Phone: +356 (0)21 / 697 816	Malta	SIMAP SK Dolné Páztve 603/97 SK-911 06 Trenčín Phone: +421 (0)32 743 04 72	Slovakia	EIM Energy 3 Plozy Square ET-11341 Heliopolis, Cairo Phone: +202 26552559	Egypt
OOO TECHNIKON Prospect Mezovismosti 177-9 BY-220125 Minsk Phone: +375 (0)17 / 393 1177	Belarus	UTU Automation Oy Pietari 37 FIN-28400 Ohiva Phone: +358 (0)207 / 463 500	Finland	INTENSIS SRL bld. Isaua 23/1 MD-2060 Kishinev Phone: +373 (0)22 / 66 4242	Moldova	INEA RBT d.o.o. Srepe 11 SI-1000 Ljubljana Phone: +386 (0)1 / 513 8116	Slovenia	SHERP MOTION TECH. Ltd. Railway Hamelana 19 IL-58851 Holon Phone: +972 (0)3 / 559 54 62	Israel
INEA RBT d.o.o. Stepne 11 SI-1000 Ljubljana Phone: +386 (0)17 513 8116	Bosnia and Herzegovina	UTEKO A.B.E.E. 5, Marvagonous Str. GR-18542 Piraeus Phone: +30 (0)211 / 1206 900	Greece	Fonseca S.A. R. João Francisco do Casal 87/89 PT-3801-997 Aveiro, Esqueira Phone: +351 (0)234 / 303 900	Portugal	OMNI RAY AG Im Schörfis 5 CH-8600 Dübendorf Phone: +41 (0)44 / 802 28 80	Switzerland	CEG LIBAN Cebaco Center/Block A Autoroute DORA Lebanon-Beirut Phone: +961 (0)1 / 240 445	Lebanon
AKHNATON 4, Andrej Ljapchev Blvd., PO Box 21 BG-1756 Sofia Phone: +359 (0)2 / 817 6000	Bulgaria	MELTRADE Kft. Fertő utca 14, HU-1107 Budapest Phone: +36 (0)1 / 431-9726	Hungary	Sirius Trading & Services Aleea Lacul Morii Nr. 3 RO-060841 Bucuresti, Sector 6 Phone: +40 (0)21 / 430 40 06	Romania	CSC - AUTOMATION Ltd. CH-8600 Dübendorf UA-02002 Kiev Phone: +380 (0)44 / 494 33 44	Ukraine	ADROIT TECHNOLOGIES 20 Waterford Office Park 189 Witkoppen Road ZA-Fourways Phone: +27 (0)11 / 658 8100	South Africa
INEA CR Lisovska 4 a HR-10000 Zagreb Phone: +385 (0)1 / 36 940 - 01 / -02 / -03	Croatia	TOD Kazpromavtomatika Ul. Zhurnyko 28 KAZ-100017 Karaganda Phone: +7 712 / 50 10 00	Kazakhstan	INEA SR d.o.o. Ul. Karadzijaeva 12/217 SER-11300 Smederevo Phone: +386 (0)26 / 461 54 01	Serbia				
AutoCont C.S. S.R.O. Kalkova 1853/3 CZ-702 00 Ostrava 2 Phone: +420 595 691 150	Czech Republic	OAK Integrator Products SIA Ritauskas iela 23 LV-1058 Riga Phone: +371 67842280	Latvia						
HANS FOLSGAARD A/S Theilgaardsv Torv 1 DK-4600 Køge Phone: +45 4320 8600	Denmark	Automatiks Centras, UAB Neries krantinė 14A-101 LT-48397 Kaunas Phone: +370 571 262707	Lithuania						

Version check



Art. no. 322379-A

Mitsubishi Electric Europe B.V.

FA - European Business Group
Mitsubishi-Electric-Platz 1
D-40882 Ratingen Germany
Tel.: +49(0)2102-4860 Fax: +49(0)2102-4861120
info@mitsubishi-automation.com
https://eu3a.mitsubishielectric.com

Specifications subject to change. All trademarks and copyrights acknowledged.

Printed October 2017