



MATERIAL FACT SHEET

301788 RV-50FM-D1-S15

General Data

Product Hierarchy	IAG24301
	ROBOT
	RV-50F-D
Ext. Material Group	10 EOL ANNOUNCED
ABC Indicator	C (Non-Stock Material / Make-to-Order)

e-shop: https://mitsubishi-electric-eshop.mee.com/mee/FA_1A/EUR/en/p/000000000000301788

FA-Robot: Robotssystem

Series	RV-F SERIES BIG CAPACITY ROBOT
Type	VERTICAL
Payload (kg)	50
Max. Reach Radius (mm)	2050
Environment specification	OIL MIST
Controller Type	CR760-D
Speed (mm/s)	13000
Repeatability (mm)	0,07
Installation Method	FLOOR
Protection Class	IP67
Power Supply 3 Phase (VAC)	180-253
Power Consumption (VA)	20000
Operating Range J1 (deg)	330
Operating Range J2 (deg)	215
Operating Range J3 (deg)	261
Operating Range J4 (deg)	720
Operating Range J5 (deg)	250
Operating Range J6 (deg)	900

Product Dimensions & Weight

Width (mm)	648
Height (mm)	1852
Depth (mm)	1955
Weight (kg)	640

Logistic Dimensions & Gross Weight

Length (cm)	215,0
Width (cm)	122,0
Height (cm)	192,0
Gross Weight (kg)	1.118,000
Volume (cdm)	5.036,160

Stock Data

Planned Delivery Time (Days)	170
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Life Cycle

Sales Start	04.08.2016
Discontinued (EOL)	21.12.2023
Last Time Buy (LTB)	30.05.2024
Last Time Purchase (LTP)	30.06.2024
End of Service (EOS)	30.03.2032
Predecessor	No Predecessor
Successor	701531 / RV-50FRM-D

Additional Product Information

Battery included	YES - CHECK SPARE PART LIST
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Export Data

Legal Control (Dual Use List)	Not Listed
Country of Origin	Japan (JP)
Preference Status (Supplier Declaration)	Non EU

Environmental

REACH Limit Exceeded	YES
REACH Substance CAS Number	10043-35-3
REACH Substance CAS Number (2)	10141-05-6
REACH Substance CAS Number (3)	110-71-4
REACH Substance CAS Number (4)	117-81-7
REACH Substance CAS Number (5)	12060-00-3
REACH Substance CAS Number (6)	127-19-5
REACH Substance CAS Number (7)	13560-89-9
REACH Substance CAS Number (8)	15571-58-1
REACH Substance CAS Number (9)	2451-62-9
REACH Substance CAS Number (10)	540-97-6
REACH Substance CAS Number (11)	541-02-6
REACH Substance CAS Number (12)	556-67-2
REACH Substance CAS Number (13)	68-12-2
REACH Substance CAS Number (14)	7439-92-1
REACH Substance CAS Number (15)	80-05-7
REACH Substance CAS Number (16)	872-50-4
Dangerous Goods Class	9
Dangerous Goods Identifier	UN3091
RoHS Compliance	NOT IN SCOPE
WEEE	B2B

Conformity

CE	COMPLIANT
UKCA	COMPLIANT

Documentation & Media Data

Manual URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=bltdae25c2bd5f2ff94&q=RV-50FM-D1-S15&doc-lang=en
Certificates URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt8050dd1408c11cc2&q=RV-50FM-D1-S15&doc-lang=en
CAD URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt26ecc97a31a841c1&q=RV-50FM-D1-S15&doc-lang=en

Product Packaging

Cardboard (g)	4000
Other paper (g)	120
Aluminum (g)	0
Steel (g)	60
Styrofoam (g)	0
Other plastic (g)	1097,18
Wood (g)	0
Glass (g)	0
Others (g)	500

Spare parts

Material	Description	Quantity	Unit
333046	RV-35F/50F/70F COUPLING GEAR ASSY J1	1	PC
333048	RV-35F/50F/70F GEAR SET J1 (NO MOTOR)	1	PC
333051	RV-35F/50F COUPLING GEAR ASSY J2	1	PC
333052	RV-35F/50F GEAR SET J2 (NO MOTOR)	1	PC
333053	RV-35F/50F/70F COUPLING GEAR ASSY J3	1	PC
333065	RV-35F/50F/70F GEAR SET J3 (NO MOTOR)	1	PC
333066	RV-35F/50F/70F COUPLING GEAR ASSY J4	1	PC
333068	RV-35F/50F/70F GEAR SET J4 (NO MOTOR)	1	PC
333071	RV-35F/50F/70F COUPLING GEAR ASSY J5	1	PC
333072	RV-35F/50F/70F GEAR SET J5 (NO MOTOR)	1	PC
333073	RV-35F/50F/70F COUPLING GEAR ASSY J6	1	PC
333075	RV-35F/50F/70F GEAR SET J6 (NO MOTOR)	1	PC
333080	RV-35F/50F/70F COVER MOTOR J1	1	PC
333081	RV-35F/50F/70F COVER MOTOR J3	1	PC
333082	RV-35F/50F/70F BACK COVER OF GEAR BOX	1	PC
333084	RV-35FM/50FM/70FM WIRING COVER J2 (IP67)	1	PC

Material	Description	Quantity	Unit
333086	RV-35F/50F/70FM WIRING COVER J3 (IP67)	1	PC
333087	RV-35F/50F/70F SIDE COVER OF GEAR BOX	1	PC
333088	RV-35F/50F/70FM MOTOR COVER J2 (IP67)	1	PC
333089	RV-35F/50F/70F COVER FOR ENCORDER LABEL	1	PC
333090	RV-35F/50F/70F BJ1 HARNESS ASSY	1	PC
333092	RV-35F/50F/70FM BJ2 HARNESS ASSY(IP67)	1	PC
237526	RH-1FHR PCB BATT. CON. TZ006	1	PC
333093	RV-35F/50F/70F PROTECT COVER A	1	PC
333094	RV-35F/50F/70F PROTECT COVER B	1	PC
333095	RV-35F/50F/70F PROTECT COVER C	1	PC
333096	RV-35F/50F/70F PROTECT COVER D	1	PC
333097	RV-35F/50F/70F REDUCTION ASSY J1 NO GEAR	1	PC
333098	RV-35F/50F/70F REDUCTION ASSY J2 NO GEAR	1	PC
333099	RV-35F/50F/70F REDUCTION ASSY J3 NO GEAR	1	PC
333100	RV-35F/50F/70F REDUCTION ASSY J4 NO GEAR	1	PC
333101	RV-35F/50F/70F REDUCTION GEAR J1	1	PC
333102	RV-35F/50F REDUCTION GEAR J2	1	PC
333103	RV-35F/50F/70F REDUCTION GEAR J3	1	PC
333104	RV-50F/70F REDUCTION GEAR J4	1	PC
333107	RV-35F/50F/70F PLUG A	1	PC
333108	RV-35F/50F/70F PLUG B	7	PC
333109	RV-35F/50F/70F EARTH BJ1	1	PC
333110	RV-35F/50F/70F EARTH CN3	1	PC
333111	RV-35F/50F/70F RELAY CABLE J3 MOTOR	1	PC
333112	RV-35F/50F/70F RELAY CABLE J3 ENCODER	1	PC
333113	RV-35F/50F/70F ENCODER	3	PC
333114	RV-35F/50F/70F SETTING TOOL SET	1	PC
333115	RV-35F/50F/70F BEARING TOOL SET J1	1	PC
333117	CR760 D/Q R700CPU UNIT	1	PC
333116	RV-35F/50F/70F BEARING TOOL SET J4J5J6	1	PC
333118	CR760 D OPERATION PANEL ASSY	1	PC
333120	CR760 D/Q R760 SFT UNIT	1	PC
333121	CR760 D/Q POWER SUPPLY UNIT CV-185	1	PC
333122	CR760 D/Q AMP UNIT V2 -160160	1	PC
333123	CR760 D/Q AMP UNIT V1-160	1	PC
333124	CR760 D/Q AMP UNIT V3-404040	1	PC
333127	CR760 D/Q ELCB NV125CV 3P 100A	1	PC
333128	CR760 D/Q NOISE FILTER FTA-50-104	1	PC
333129	CR760 D/Q AC REACTOR	1	PC
333130	CR760 D/Q MAGNETIC CONTACTOR	1	PC
333131	CR760 D/Q NOISE FILTER NAC-06-472	1	PC
333132	CR760 D/Q AVR ASSY 24V POWER SUPPLY UNIT	1	PC
333133	CR760 D/Q TERMINAL-K5.5-12S	1	PC
333134	CR760 D/Q TERMINAL-K5.5-6S	1	PC
333159	CR760 D/Q TB CABLE ASSY	1	PC
333164	CR760 D/Q CN1-ASSY 7M	1	PC
333165	CR760 D/Q CN2-ASSY 7M	1	PC
333166	CR760 D/Q CN3-ASSY 7M	1	PC

Compatible products

Material	Description / Price List Text / Classification
124658	2A-RZ371 Robot option I/O-Interface: 32 inputs /32 Outputs (decentral I/O's) Class 100100604: FA-Robot: Interface Card
214968	R32TB Robot Teaching Box; Narc controller (standard version) Class 100100602: FA-Robot: Teachingbox
218862	2D-TZ378 Robot option I/O-Interface: 32 inputs /32 Outputs (internal I/O's expansion) Class 100100604: FA-Robot: Interface Card
219063	2D-TZ576 Robot option CC-Link-Interface-card Class 100100604: FA-Robot: Interface Card
225756	R32TB-15 Teaching box R32TB with 7 lines display and 15m cable length Class 100100602: FA-Robot: Teachingbox
232808	2D-TZ368 Robot option E/A-Interface: 32 inputs /32 Outputs SINK (internal I/O's) Class 100100604: FA-Robot: Interface Card

Material	Description / Price List Text / Classification
239378	2D-TZ454 2D-TZ454, Memory extension for CRnD Class 100100607: FA-Robot: Other Option
259885	2D-TZ535 Network Interface for CompactCom module Class 100100604: FA-Robot: Interface Card
269546	2D-TZ535-PN-SET Robot Network Interface Profinet IO Class 100100604: FA-Robot: Interface Card
269555	2D-TZ535-PN Network Interface for CompactCom Modul Profinet Class 100100604: FA-Robot: Interface Card
282409	2D-TZ535-EIP-SET Robot Network Interface EtherNet/IP Class 100100604: FA-Robot: Interface Card
303976	1F-GR2000S-21 RV-35F/RV-50F/RV-70F Hand output cable (1~8), 2m Class 100100605: FA-Robot: Cable
303977	1F-GR2000S-22 RV-35F/RV-50F/RV-70F Hand output cable (9~16), 2m Class 100100605: FA-Robot: Cable
303978	1F-HC2000S-21 RV-35F/RV-50F/RV-70F Hand input cable (1~8), 2m Class 100100605: FA-Robot: Cable
303979	1F-HC2000S-22 RV-35F/RV-50F/RV-70F Hand input cable (9~16), 2m Class 100100605: FA-Robot: Cable
303980	1F-05CBL-21 RV-35F/RV-50F/RV-70F Extension cable, 5m Class 100100605: FA-Robot: Cable
303981	1F-10CBL-21 RV-35F/RV-50F/RV-70F Extension cable, 10m Class 100100605: FA-Robot: Cable
303982	1F-15CBL-21 RV-35F/RV-50F/RV-70F Extension cable, 15m Class 100100605: FA-Robot: Cable
303983	1F-05LCBL-21 RV-35F/RV-50F/RV-70F Extension cable flexible, 5m Class 100100605: FA-Robot: Cable
303984	1F-10LCBL-21 RV-35F/RV-50F/RV-70F Extension cable flexible, 10m Class 100100605: FA-Robot: Cable
303985	1F-15LCBL-21 RV-35F/RV-50F/RV-70F Extension cable flexible, 15m Class 100100605: FA-Robot: Cable
313063	2F-DQ535 Network Interface for CompactCom module CC-Link IE Filed AB6709 Class 100100604: FA-Robot: Interface Card
324579	RT ToolBox3 Standard Robot programming and simulation Software, Windows 10/11; USB Class 100101206: FA-Software: Software Robot
324580	RT ToolBox3 Pro Robot programming and simulation Software incl. MELFA-Works, Windows 10/11 Class 100101206: FA-Software: Software Robot
334232	RT ToolBox3 Standard UPGRADE Robot programming and simulation Software, Windows 10/11, Upgrade; USB Class 100101206: FA-Software: Software Robot
472268	1F-05CBLS-21 Extension cable for RV-35F/RV-50F/RV-70F; 5m Class 100100605: FA-Robot: Cable
472269	1F-10CBLS-21 Extension cable for RV-35F/RV-50F/RV-70F; 10m Class 100100605: FA-Robot: Cable
472270	1F-15CBLS-21 Extension cable for RV-35F/RV-50F/RV-70F; 15m Class 100100605: FA-Robot: Cable
687249	R86TB Robot Teaching Box with 10,1" (Colour / Touch version) Class 100100602: FA-Robot: Teachingbox