



MATERIAL FACT SHEET

701531 RV-50FRM-D

General Data

Product Hierarchy	IAG26301
	ROBOT
	RV-50FR-D
Ext. Material Group	10 STANDARD ITEM
ABC Indicator	B (Limited Availability from Stock)

e-shop: https://mitsubishi-electric-eshop.mee.com/mee/FA_IA/EUR/en/p/000000000000701531

Product Components

700815 / RV-50FRM-D without TR	1 pc required
700809 / 2F-ATBOX	1 pc required

FA-Robot: Robotssystem

Series	RV-FR SERIES
Type	VERTICAL
Payload (kg)	50
Max. Reach Radius (mm)	2100
Environment specification	OIL MIST
Controller Type	CR860
Speed (mm/s)	13400
Repeatability (mm)	0,06
Installation Method	FLOOR
Protection Class	IP67
Power Supply 3 Phase (VAC)	200-230
Power Consumption (VA)	7500
Operating Range J1 (deg)	360
Operating Range J2 (deg)	245
Operating Range J3 (deg)	290
Operating Range J4 (deg)	720
Operating Range J5 (deg)	290
Operating Range J6 (deg)	900

Logistic Dimensions & Gross Weight

Length (cm)	185,0
Width (cm)	196,0
Height (cm)	217,0
Gross Weight (kg)	989,000
Volume (cdm)	7.868,420

Stock Data

Planned Delivery Time (Days)	224
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Life Cycle

Sales Start	01.11.2023
Predecessor	301788 / RV-50FM-D1-S15

Additional Product Information

Battery included	YES - CHECK SPARE PART LIST
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Export Data

Commodity Code	84795000
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	108-78-1
REACH Substance CAS Number (2)	117-81-7
REACH Substance CAS Number (3)	119-47-1
REACH Substance CAS Number (4)	119313-12-1
REACH Substance CAS Number (5)	12060-00-3
REACH Substance CAS Number (6)	127-19-5
REACH Substance CAS Number (7)	1303-86-2
REACH Substance CAS Number (8)	1330-43-4
REACH Substance CAS Number (9)	13560-89-9
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)	71868-10-5
REACH Substance CAS Number (14)	79-94-7
REACH Substance CAS Number (15)	80-05-7
REACH Substance CAS Number (16)	80-43-3
REACH Substance CAS Number (17)	96-45-7
Dangerous Goods Class	9
Dangerous Goods Identifier	NO
RoHS Compliance	NOT IN SCOPE
WEEE	B2B

Conformity

CE	COMPLIANT
EAC	NON-COMPLIANT

Documentation & Media Data

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

Spare parts

Material	Description	Quantity	Unit
712961	RV-35/50/80FR BATTERY	1	PC
734880	RV-35/50/80FR INT. HARNESS BKOF1238G02	1	PC
734881	RV-35/50/80FR INT. HARNESS BKOF1238G03	1	PC
734882	RV-35/50/80FR INT. HARNESS BKOF1238G06	1	PC
734883	RV-35/50/80FR INT. HARNESS BKOF1238G07	1	PC
734884	RV-35/50/80FR INT. HARNESS BKOF1238G08	1	PC
734885	RV-35/50/80FR INT. HARNESS BKOF1238G09	1	PC
734886	RV-35/50/80FR INT. HARNESS BKOF1238G10	1	PC
734887	RV-35/50/80FR PCB Board DQ397A	1	PC
734888	RV-35/50/80FR CN1 Cable 7m	1	PC
734889	RV-35/50/80FR CN2 Cable 7m	1	PC
734890	RV-35/50/80FR CN3 Cable 7m	1	PC
734891	RV-35/50/80FR PCB Board DQ338A	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) type 2A-RZ371 Class 100100604: FA-Robot: Interface Card
214968	R32TB Robot Teaching Box R32TB; 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

Material	Description / Price List Text / Classification
232808	2D-TZ368 Robot option E/A-Interface: 32 inputs /32 Outputs SINK (internal I/O's) Class 100100604: FA-Robot: Interface Card
269546	2D-TZ535-PN-SET Robot Network Interface Profinet IO Class 100100604: FA-Robot: Interface Card
271212	2F-YZ581 Encoder Distribution Unit 2F-YZ581 for robot controller Class 100100604: FA-Robot: Interface Card
282409	2D-TZ535-EIP-SET Robot Network Interface EtherNet/IP Class 100100604: FA-Robot: Interface Card
313063	2F-DQ535 Network Interface for CompactCom module CC-Link IE Filed AB6709 Class 100100604: FA-Robot: Interface Card
324560	2F-DQ535-CCIEF-SET Network Interface SET CC-Link IE Field for CR800 Contr. Class 100100604: FA-Robot: Interface Card
324579	RT ToolBox3 Standard 1L-USB Robot Programming/Simulation Software, Win10/11, 1 Licence USB Class 100101206: FA-Software: Software Robot
324580	RT ToolBox3 Pro 1L-USB Robot Programming/Simulation Software, MELFA-Works, Win10/11, 1 Licence USB Class 100101206: FA-Software: Software Robot
413963	2F-DQ535-ECT-SET Network Interface SET EtherCAT for CR800 Contr. Class 100100604: FA-Robot: Interface Card
603944	4F-SF003-05 Safety option unit MELFA SafePlus II Slim for CR800 Controller Class 100100604: FA-Robot: Interface Card
687249	R86TB Robot Teaching Box with 10,1" (Colour / Touch version) Class 100100602: FA-Robot: Teachingbox
700776	1F-GR2000S-44 RV-35FR/RV-50FR/RV-80FR Hand output cable; 2m Class 100100605: FA-Robot: Cable
700777	1F-HC2000S-44 RV-35FR/RV-50FR/RV-80FR Hand input cable; 2m Class 100100605: FA-Robot: Cable
700778	1F-LAN2000-44 RV-35FR/RV-50FR/RV-80FR Hand Ethernet cable; 2m Class 100100605: FA-Robot: Cable
700779	1F-DH-44J1 RV-35FR/RV-50FR/RV-80FR Stopper for J1 Class 100100607: FA-Robot: Other Option
700780	2F-BRKBOX-1 RV-35FR/RV-50FR/RV-80FR Brake releasing unit for servo motor Class 100100607: FA-Robot: Other Option
700781	2F-BRKCBL-1 RV-35FR/RV-50FR/RV-80FR Power supply cable for 2F-BRKBOX-1 Class 100100605: FA-Robot: Cable
700802	1F-12UCBL-44 Machine cable for RV-35/50/80FR and CR860 controller; Standard; 12m Class 100100605: FA-Robot: Cable
700803	1F-17UCBL-44 Machine cable for RV-35/50/80FR and CR860 controller; Standard; 17m Class 100100605: FA-Robot: Cable
700804	1F-22UCBL-44 Machine cable for RV-35/50/80FR and CR860 controller; Standard; 22m Class 100100605: FA-Robot: Cable
700805	1F-07LUCBL-44 Machine cable for RV-35/50/80FR and CR860 controller; flexible; 7m Class 100100605: FA-Robot: Cable
700806	1F-12LUCBL-44 Machine cable for RV-35/50/80FR and CR860 controller; flexible; 12m Class 100100605: FA-Robot: Cable
700807	1F-17LUCBL-44 Machine cable for RV-35/50/80FR and CR860 controller; flexible; 17m Class 100100605: FA-Robot: Cable

Material	Description / Price List Text / Classification
700808	1F-22LUCBL-44 Machine cable for RV-35/50/80FR and CR860 controller; flexible; 22m Class 100100605: FA-Robot: Cable
700809	2F-ATBOX Transformer Unit for RV-35/50/80FR Class 100100607: FA-Robot: Other Option
736446	RT ToolBox3 Pro Robot Programming/Simulation Software, MELFA-Works, Win10/11, 1 Licence Email Class 100101206: FA-Software: Software Robot
736447	RT ToolBox3 Standard Robot Programming/Simulation Software, Win10/11, 1 Licence Email Class 100101206: FA-Software: Software Robot