



MATERIAL FACT SHEET

492799 RV-8CRL-D-S15

General Data

Product Hierarchy	IAG25901
	ROBOT
	RV-8CRL-D
Ext. Material Group	10 STANDARD ITEM
ABC Indicator	A (Available from Stock)

e-shop: https://mitsubishi-electric-eshop.mee.com/mee/FA_IA/EUR/en/p/000000000000492799

FA-Robot: Robotssystem

Series	RV-CR SERIES
Type	VERTICAL
Payload (kg)	8
Max. Reach Radius (mm)	931
Environment specification	STANDARD
Controller Type	CR800-CVD
Cycle Time (s)	0,44
Speed (mm/s)	10500
Repeatability (mm)	0,02
Installation Method	FLOOR, CEILING, WALL
Protection Class	IP65
Power Supply (VAC)	1PHASE 200-230V
Power Consumption (VA)	2000
Operating Range J1 (deg)	340
Operating Range J2 (deg)	220
Operating Range J3 (deg)	165
Operating Range J4 (deg)	400
Operating Range J5 (deg)	240
Operating Range J6 (deg)	720

Product Dimensions & Weight

Width (mm)	280
Height (mm)	1020
Depth (mm)	865
Weight (kg)	41

Logistic Dimensions & Gross Weight

Length (cm)	72,0
Width (cm)	65,0
Height (cm)	139,0
Gross Weight (kg)	73,300
Volume (cdm)	650,520

Stock Data

Planned Delivery Time (Days)	103
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Life Cycle

Sales Start	29.10.2019
Predecessor	No Predecessor

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)	119313-12-1
REACH Substance CAS Number (3)	120-12-7
REACH Substance CAS Number (4)	12060-00-3
REACH Substance CAS Number (5)	127-19-5
REACH Substance CAS Number (6)	1303-86-2
REACH Substance CAS Number (7)	13560-89-9
REACH Substance CAS Number (8)	3147-75-9
REACH Substance CAS Number (9)	540-97-6
REACH Substance CAS Number (10)	541-02-6
REACH Substance CAS Number (11)	556-67-2
REACH Substance CAS Number (12)	71868-10-5
REACH Substance CAS Number (13)	7439-92-1
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)	110-80-5
Dangerous Goods Class	9
Dangerous Goods Identifier	UN3091
WEEE	B2B

Conformity

CE	COMPLIANT
EAC	NON-COMPLIANT
UKCA	COMPLIANT

Documentation & Media Data

Manual URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=bltdae25c2bd5f2ff94&q=RV-8CRL-D-S15&doc-lang=en
Certificates URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt8050dd1408c11cc2&q=RV-8CRL-D-S15&doc-lang=en
CAD URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt26ecc97a31a841c1&q=RV-8CRL-D-S15&doc-lang=en

Product Packaging

Cardboard (g)	10000
Other paper (g)	0
Aluminum (g)	0
Steel (g)	70
Styrofoam (g)	0
Other plastic (g)	108,66
Wood (g)	0
Glass (g)	0
Others (g)	0

Spare parts

Material	Description	Quantity	Unit
415509	RH-3/6FRH CROSS ROLLER BEARING J4	1	PC
237502	RV-8CRL CROSS ROLLER BEARING	1	PC
237504	RV-8CRL BALL BEARING 638ZZ1	2	PC
164945	RV-3SB/3SJB BALL BEARING 687MC3	1	PC
154921	RV-6S/SL BEARING 688AZZ1	1	PC
415463	RV/RH-FR BALL BEARING 6809ZZ	1	PC
580822	RV-8CRL TIMING BELT J5	1	PC
580823	RV-8CRL TIMING BELT J4	1	PC
580824	RV-8CRL PULLEY J4,J5	2	PC
580825	RV-8CRL INTERNAL HARNESS	1	PC
580826	RV-8CRL cable (POWER/SIGNAL) 1F-05UCBL-4	1	PC
580827	RV-8CRL CONNECTOR U229D964G51	1	PC
415321	RV-FR INTERNAL PCB DQ006	1	PC
580828	RV-8CRL CONNECTOR U229D965G51	1	PC
237484	RV-8CRL BATTERY CABLE ASSY	1	PC
131168	ER6 BAT	1	PC
265258	RV-8CHR BATTERY HOLDER	1	PC
278335	RV-7FRLL/13FR(L)/20FR CARD SPACER	2	PC

Material	Description	Quantity	Unit
317001	RH-3/6CH/CRH AIR JOINT KQ2E06-00NJ	4	PC
237529	RV-2FR(L)/FR(L)B OILSEAL J5,J6	2	PC
317011	RH-3/6CH/CRH STOPPER COLLAR(M8)	1	PC
278359	RV-8CRL STOPPER A	4	PC
580829	RV-8CRL CABLE CLAMP NK-9N	1	PC
580830	RV-8CRL CABLE CLAMP AL5	2	PC
237585	RV-8CRL LOW HEAD CAP SCREW SSH-EL-M6	12	PC
237540	RV-5AS-D SEAL WASHER(M6)	12	PC
131350	RP-1/3/5AH C SNAPRING 8	2	PC
580831	RV-8CRL SPACER	3	PC
249985	RH-13F/20F/7FLL TAPER SCREW SUS ANA R1/8	1	PC
164975	RH-12/20FRH PARALLEL PIN H74x8	2	PC
164976	RV-8CRL PARALLEL PIN H73x6	2	PC
580832	RV-8CRL PIN HEIKOO H7-6X12	2	PC
250016	RV-8CRL PACKING	1	PC
237606	RH-12/20FRH EARTH NAMEPLATE	1	PC
237604	RH-12/20FRH COORDINATES DIRECTION MARK a	1	PC
237605	RH-12/20FRH COORDINATES DIRECTION MARK b	1	PC
237636	RV-5AS-D DIRECTION MARK	1	PC
237602	RH-3CH/6CH/6CRH ALIGNMENT MARK (MINI)	1	PC
317021	RV-8CRL CONNECTOR 17JE	2	PC
237583	RH-12/20FRH GREASE NIPPLE WA610 NYLON	1	PC
134302	GLUE 242 LOCTITE 250ml	1	PC
580833	RV-8CRL O RING J6	1	PC
580711	RV-8CRL MOTOR SET J1	1	PC
316998	RH-6CH/CRH O RING 88.62X1.78	1	PC
580812	RV-8CRL MOTOR SET J2	1	PC
580813	RV-8CRL MOTOR SET J3	1	PC
317000	RH-3CH/CRH O RING 64x1.5	1	PC
580814	RV-8CRL MOTOR SET J4/J5	1	PC
588245	RV-5AS-D AC SERVO MOTOR J4 J5	1	PC
580815	RV-8CRL MOTOR SET J6	1	PC
317000	RH-3CH/CRH O RING 64x1.5	1	PC
580816	RV-8CRL HARMONIC DRIVE SET J1	1	PC
316998	RH-6CH/CRH O RING 88.62X1.78	1	PC
317000	RH-3CH/CRH O RING 64x1.5	1	PC
167999	RV-8CRL HARMONIC DRIVE J2	1	PC
316998	RH-6CH/CRH O RING 88.62X1.78	1	PC
580817	RV-8CRL HARMONIC DRIVE SET J3	1	PC
316998	RH-6CH/CRH O RING 88.62X1.78	1	PC
317000	RH-3CH/CRH O RING 64x1.5	1	PC
580818	RV-8CRL HARMONIC DRIVE ASSY J4	1	PC
580819	RV-8CRL MACHINED PART J5	1	PC
154916	RV-6S/SL HARMONIC DRIVE J5	1	PC
580820	RV-8CRL BALL BEARING J5	1	PC
580831	RV-8CRL SPACER	1	PC
317000	RH-3CH/CRH O RING 64x1.5	1	PC
265197	RV-8CRL HARMONIC DRIVE J6	1	PC
317000	RH-3CH/CRH O RING 64x1.5	1	PC
278404	RV-8CRL SAFETY SOCKET M6	4	PC
580834	RV-8CRL ORIGIN SETTING TOOL	1	PC
580835	RV-8CRL ORIGIN SETTING TOOL J6 SET	1	PC
276702	RV-8CRL SAFETY SOCKET 2	3	PC
580836	RV-8CRL ASSEMBLY TOOL	1	PC
580837	RV-8CRL ASSEMBLY TOOL	1	PC
720098	RV-12CRL-D O-Ring J6/RV8-CRL J4/5/6	1	PC
720099	RV-12CRL-D O-Ring J4/J5/RV8-CRL J1/3	1	PC
720100	RV-12CRL-D O-Ring J1/J3/RV8-CRL J2/4	1	PC
720097	RV-12CRL-D O-Ring J1/J2/ RV-8CRL J2	1	PC
736496	RV-8CRL STICKER	1	PC
700823	RV-8CRL SIDE COVER J4	1	PC
700824	RV-8CRL SIDE COVER J5/J6	1	PC
700825	RV-8CRL COVER JOINT J6	1	PC
700826	RV-8CRL COVER BELOW J2	1	PC
700794	RV-8CRL J1 plastic Cover	1	PC
700795	RV-8CRL J2 plastic Cover	1	PC
700796	RV-8CRL side arm plastic cover	1	PC
626224	RV-8CRL COVER ELBOW J4	1	PC
676250	RV-8CRL MOTOR SET J2 (Q)	1	PC
676333	RV-8CRL MOTOR SET J6 (Q)	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
218861	2D-TZ577 Robot option PROFIBUS interface-card 2D-TZ577 Class 100100604: FA-Robot: Interface Card
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
269546	2D-TZ535-PN-SET Robot Network Interface Profinet IO Class 100100604: FA-Robot: Interface Card
282409	2D-TZ535-EIP-SET Robot Network Interface EtherNet/IP Class 100100604: FA-Robot: Interface Card
313061	4F-SF002-01 Safety option unit MELFA SafePlus for CR800 Controller Class 100100604: FA-Robot: Interface Card
313062	CR800-MB Protection Box IP54 for CR800 Controller CR800-MB Class 100100607: FA-Robot: Other Option
313064	4F-FS002H-W200 Force Sensor Set 200N incl. Interface unit (2F-DQ561) for FR Series 4F-FS002H-W2 Class 100100607: FA-Robot: Other Option
313105	4F-FS002H-W1000 Force Sensor Set 1000N incl. Interface unit (2F-DQ561) for FR Series 4F-FS002H-W Class 100100607: FA-Robot: Other Option
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
325728	MELFA Smart Plus Card Pack A-Typ2F-DQ510 MELFA Smart Plus Card Pack A-Type Class 100100604: FA-Robot: Interface Card
325729	2F-DQ511 MELFA Smart Plus Card A-Type Class 100100604: FA-Robot: Interface Card
486379	2F-DQ520 MELFA Smart Plus Card Pack AB-Type Class 100100604: FA-Robot: Interface Card
486380	2F-DQ521 MELFA Smart Plus Card B-Type Class 100100604: FA-Robot: Interface Card
492800	1F-10UCBL-43 Machine cable for RV-8CRL/RV12-CRL and CR800 controller; standard; 10m Class 100100605: FA-Robot: Cable
492801	1F-15UCBL-43 Machine cable for RV-8CRL/RV12-CRL and CR800 controller; standard; 15m Class 100100605: FA-Robot: Cable
492892	1F-20UCBL-43 Machine cable for RV-8CRL/RV12-CRL and CR800 controller; standard; 20m Class 100100605: FA-Robot: Cable
492893	1F-10LUCBL-43 Machine cable for RV-8CRL/RV12-CRL and CR800 controller; flexible; 10m Class 100100605: FA-Robot: Cable

Material	Description / Price List Text / Classification
492894	1F-15LUCBL-43 Machine cable for RV-8CRL/RV12-CRL and CR800 controller; flexible; 15m Class 100100605: FA-Robot: Cable
492895	1F-20LUCBL-43 Machine cable for RV-8CRL/RV12-CRL and CR800 controller; flexible; 20m Class 100100605: FA-Robot: Cable
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
713770	1F-HC1000S-43 Hand input-output cable 1m with 15 inputs/ 15 outputs for RV-12CRL-D-S15 Class 100100605: FA-Robot: Cable
713771	1F-DH-42J1 Stopper for changing the J1 axis operating range for RV-12CRL-D-S15 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