

MATERIAL FACT SHEET

312998 RH-3FRHR3515-D-S25

General Data

Product Hierarchy	IAG25701
	ROBOT
	RH-3FRHR-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/000000000000312998

FA-Robot: Robotssystem

Series	RH-FRHR SERIES
Type	SCARA
Payload (kg)	3
Max. Reach Radius (mm)	350
Z Axis Stroke (mm)	150
Environment specification	STANDARD
Controller Type	CR800-D
Cycle Time (s)	0,32
Speed (mm/s)	6267
Repeatability (mm)	0,01
Installation Method	CEILING
Protection Class	IP20
Power Supply 1 Phase (VAC)	200-230
Power Consumption (VA)	1000
Operating Range J1 (deg)	450
Operating Range J2 (deg)	450
Operating Range J4 (deg)	720

Product Dimensions & Weight

Width (mm)	174
Height (mm)	773
Depth (mm)	658
Weight (kg)	29

Logistic Dimensions & Gross Weight

Length (cm)	162,0
Width (cm)	80,0
Height (cm)	110,0
Gross Weight (kg)	125,000
Volume (cdm)	1,425,600

Stock Data

Planned Delivery Time (Days)	134
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Life Cycle

Sales Start	01.07.2017
Predecessor	275483 / RH-3FHR3515-D1-S15

Additional Product Information

Binding Tariff Information	DEBIT-10890/21-1
BTI validity date	20.06.2024
Battery included	YES - CHECK SPARE PART LIST

Export Data

Legal Control (Dual Use List)	Not Listed
Country of Origin	Japan (JP)

Preference Status (Supplier Declaration)	Non EU
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Environmental

REACH Limit Exceeded	YES
REACH Substance CAS Number	101-14-4
REACH Substance CAS Number (2)	117-81-7
REACH Substance CAS Number (3)	12060-00-3
REACH Substance CAS Number (4)	1303-86-2
REACH Substance CAS Number (5)	7439-92-1
REACH Substance CAS Number (6)	80-05-7
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=RH-3FRHR3515-D-S25&doc-lang=en
Certificates URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt8050dd1408c11cc2&q=RH-3FRHR3515-D-S25&doc-lang=en
CAD URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt26ecc97a31a841c1&q=RH-3FRHR3515-D-S25&doc-lang=en

Product Packaging

Cardboard (g)	37026
Other paper (g)	120
Aluminum (g)	0
Steel (g)	70
Styrofoam (g)	0
Other plastic (g)	1292
Wood (g)	36900
Glass (g)	0
Others (g)	500

Spare parts

Material	Description	Quantity	Unit
249933	RH-3FRHR HARMONIC DRIVE J1	1	PC
249934	RH-3FRHR HARMONIC DRIVE J2	1	PC
249936	RH-3FRHR TIMING PULLEY J1A	1	PC
249937	RH-3SD(Q)HR TIMING PULLEY J1B	1	PC
143353	RH-10AH85 TIMING PULLEY J3 MOTOR	1	PC
415524	RH-3FRHR PULLEY J2B	1	PC
249938	RH-3FRHR TIMING PULLEY J3A	1	PC
262598	RH-1FHR TIMING PULLEY J3B	1	PC
262591	RH-1FHR TIMING PULLEY J4A	1	PC
249940	RH-1FHR TIMING PULLEY J4B	1	PC
249941	RH-1FHR TIMING PULLEY J4C	1	PC
262599	RH-1FHR TIMING PULLEY J4D	1	PC
249943	RH-3SD(Q)HR TIMING BELT J1	1	PC
415512	RH-6FRH TIMING BELT J4B	1	PC
415525	RH-3FRHR TIMING BELT J3	1	PC
415526	RH-3FRHR TIMING BELT J4A	1	PC
415527	RH-3FRHR TIMING BELT J4B	1	PC
249948	RH-3FRHR BALL BEARING 6806ZZCM NS7S1	2	PC
164946	RH-13/20/7FL(L) BALL BEARING 6809DD	1	PC
249950	RV-5AS-D BALL BEARING 6805ZZ	1	PC
142840	RH-12/20FRH BALL BEARING 6808DD	1	PC
133738	RP-3/5AH BALL BEARING 6001ZZNR	2	PC
249952	RH-3SD(Q)HR BALL BEARING 6003DDUCM NS7S1	2	PC
415320	RV-FR INTERNAL PCB DQ392	1	PC
415321	RV-FR INTERNAL PCB DQ006	1	PC
415452	RV-FR BATTERY HOLDER	4	PC
278335	RV-7FRLL/13FR(L)/20FR CARD SPACER	2	PC
167977	RH-6SH/12SH BRAKE CABLE ASSY	1	PC
415505	RH-1FRHR INTERNAL HARNESS 2	1	PC
410994	RH-12/20FH POWER CABLE 1F-05UCBL-41	1	PC

Material	Description	Quantity	Unit
415528	RH-3FRHR INTERNAL HARNESS 2	1	PC
415529	RH-3FRHR INTERNAL HARNESS 3	1	PC
249960	RH-3FRHR COORD. DIRECTION MARK(X)	1	PC
249961	RH-3FRHR COORD. DIRECTION MARK(Y)	1	PC
249962	RH-3FRHR COORD. DIRECTION MARK(Z)	1	PC
249963	RH-3FRHR PIPING NAMEPLATE1	1	PC
249964	RH-3FRHR PIPING NAMEPLATE2	1	PC
249965	RH-12/20FRH DIRECTION NAMEPLATE J1	1	PC
249966	RH-3FRHR BRAKE RELEASE NAMEPLATE	1	PC
249967	RH-12/20FRH ALIGNMENT MARK	6	PC
237606	RH-12/20FRH EARTH NAMEPLATE	1	PC
276664	RH-1FHR RUBBER STOPPER Z	2	PC
249971	RH-3FRHR STOPPER RUBBER	4	PC
249973	RH-3FRHR FELT(PULLEY J2)	1	PC
249974	RH-3FRHR FELT(J1J2 WIRING PIPE)	3	PC
249976	RH-13F/20F/7FLL SNAP RING ANA-C37	1	PC
249977	RH-3FRHR SNAP RING ANA-C42	1	PC
249978	RH-3FRHR SNAP RING ZIKU-C17	1	PC
249979	RH-3FRHR AIR JOINT UKBL4	4	PC
249981	RV-13/20FR/7FRLL AIR JOINT KJE04-00	4	PC
249982	RH-3FRHR AIR JOINT ULA6M	2	PC
249983	RH-12/20FRH GROMMET C-30SG-16A-UL	1	PC
249984	RH-12/20FRH GROMMET C-30SG-22A-UL	4	PC
262833	RH-12/20FRH COVER ADD	1	PC
262627	RH-3FH/6FH COVER ARM NO2 B	1	PC
164980	RH-12/20FRH GREASE NIPPLE CAP	2	PC
317013	RH-3/6CH/CRH CABLE CLAMP AL6	1	PC
164982	RH-3FRHR CABLE CLAMP AL8	1	PC
249985	RH-13F/20F/7FLL TAPER SCREW SUS ANA R1/8	2	PC
249986	RH-3FRHR NUT HNTA5-5	4	PC
249987	RH-3FRHR AIR JOINT PLUM-6-PM	4	PC
164954	RH-12/20FRH AIR JOINT UKBL6	6	PC
249988	RV-13/20FR/7FRLL PLUG UP4	4	PC
278338	RV-7FRLL/13FR(L)/20FR PLUG UP6	4	PC
229009	CR3D/CR3Q FERRITE CORE FIL E04SR301334	1	PC
249990	RH-3FRHR WIRING PIPE J1	1	PC
249991	RH-3FRHR WIRING PIPE J2	1	PC
249992	RH-3FRHR PULLEY FAN	1	PC
276673	RH-2FH PIPING GUIDE	1	PC
249994	RH-3FRHR STOPPER J2	1	PC
276664	RH-1FHR RUBBER STOPPER Z	2	PC
249998	RH-3FRHR COVER BASE B	2	PC
250001	RH-3FRHR COVER NO1 ARM A	1	PC
250002	RH-3FRHR COVER NO1 ARM B	1	PC
250003	RH-3FRHR COVER NO2 ARM	1	PC
250004	RH-3FRHR COVER COLUMN	1	PC
250005	RH-3FRHR COVER MOTOR J2	1	PC
250006	RH-3FRHR COVER MOTOR J3	1	PC
250008	RH-3FRHR PIPING BRACKET	1	PC
250010	RH-3FRHR AIR JOINT ULA4M	4	PC
250011	RH-3FRHR AIR JOINT ULAL4	2	PC
278340	RV-7FRLL/13FR(L)/20FR RUBBER SHEET 6	3	PC
415463	RV/IRH-FR BALL BEARING 6809ZZ	1	PC
164976	RV-8CRL PARALLEL PIN H73x6	4	PC
294157	RH-3FRHR MOTOR J2 (200W)	1	PC
294156	RH-3FRHR MOTOR J1 (750W)	1	PC
294158	RH-3FRHR MOTOR J3 (200W)	1	PC
294159	RH-3FRHR MOTOR J4 (100W)	1	PC
134305	LIQUID GASKET WHITE THREE BOND 1212	1	PC
134302	GLUE 242 LOCTITE 250ml	1	PC
134303	GLUE THREE BOND 1322N 50g	1	PC
134304	ROBOT SILICONE GREASEG501 1KG	1	PC
131243	Robot Grease 2,5Kg: MULTEMP PS No.2	1	PC
250023	RH-3FRHR WIRING PIPE SPACER J1	1	PC
250025	RH-3FRHR STOPPER SPACER J1	4	PC
249990	RH-3FRHR WIRING PIPE J1	1	PC
250027	RV-4F/7F GREASE GUIDE	1	PC
249933	RH-3FRHR HARMONIC DRIVE J1	1	PC
164946	RH-13/20/7FL(L) BALL BEARING 6809DD	1	PC
249949	RH-3FRHR BALL BEARING 6807ZZCM NS7S1	1	PC

Material	Description	Quantity	Unit
164980	RH-12/20FRH GREASE NIPPLE CAP	1	PC
262555	RH-12/20FRH GREASE NIPPLE WB610 NYLON	1	PC
249985	RH-13F/20F/7FLL TAPER SCREW SUS ANA R1/8	1	PC
249977	RH-3FRHR SNAP RING ANA-C42	1	PC
249948	RH-3FRHR BALL BEARING 6806ZZCM NS7S1	1	PC
249971	RH-3FRHR STOPPER RUBBER	2	PC
249974	RH-3FRHR FELT(J1J2 WIRING PIPE)	2	PC
249949	RH-3FRHR BALL BEARING 6807ZZCM NS7S1	1	PC
249991	RH-3FRHR WIRING PIPE J2	1	PC
250030	RH-3FRHR STOPPER SPACER J2	1	PC
249994	RH-3FRHR STOPPER J2	1	PC
250031	RH-3FRHR BRG COVER J2	2	PC
250032	RH-3FRHR STOPPER SPACER J2B	1	PC
250033	RH-3FRHR STOPPER SPACER J2A	1	PC
249934	RH-3FRHR HARMONIC DRIVE J2	1	PC
249948	RH-3FRHR BALL BEARING 6806ZZCM NS7S1	1	PC
249950	RV-5AS-D BALL BEARING 6805ZZ	1	PC
249971	RH-3FRHR STOPPER RUBBER	2	PC
250035	RH-3SD(Q)HR STOPPER J2	1	PC
237583	RH-12/20FRH GREASE NIPPLE WA610 NYLON	1	PC
164980	RH-12/20FRH GREASE NIPPLE CAP	1	PC
249976	RH-13F/20F/7FLL SNAP RING ANA-C37	1	PC
249973	RH-3FRHR FELT(PULLEY J2)	1	PC
249974	RH-3FRHR FELT(J1J2 WIRING PIPE)	1	PC
249971	RH-3FRHR STOPPER RUBBER	2	PC
250036	RH-3FRHR FLANGE A STOPPER RUBBER	1	PC
294163	RH-3FRHR BALL SCREW SPLINE C	1	PC
249994	RH-3FRHR STOPPER J2	1	PC
276708	RH-2FH FLANGE	1	PC
249986	RH-3FRHR NUT HNTA5-5	2	PC
250009	RH-3FRHR FIXED PLATE	1	PC
602876	CR800 PCB CPU DQ171D	1	PC
249971	RH-3FRHR STOPPER RUBBER	2	PC
249986	RH-3FRHR NUT HNTA5-5	4	PC
405788	CR800 PCB SERVO CPU DQ865B	1	PC
405791	CR800 PCB CONVERTER DQ801A	1	PC
405789	CR800 PCB SYSTEM IO DQ331B	1	PC
405790	CR800 PCB OPTIONAL SLOT DQ332A	1	PC
405797	CR800 PCB INVERTER DQ848A FOR RH-3FRHR	1	PC
405801	CR800 POWER SUPPLY UNTIL RV-7FR/RH20FR	2	PC
405803	CR800 NOISE FILTER UNTIL RV-7FR/RH20FR	1	PC
405805	CR800 FUSE 500SF-20UL	2	PC
405806	CR800 FUSE HOLDER	2	PC
220184	CR2D CR2Q OPTION COVER	2	PC
405807	CR800 OPTION CASE	1	PC
220273	CR800 TB CONNECTOR	1	PC
262774	NARC 750 FILTER DUST	1	PC
262774	NARC 750 FILTER DUST	1	PC
405808	CR800 CABLE BK0FA1078H01	1	PC
405809	CR800 CABLE BK0FA1078H02	1	PC
405810	CR800 CABLE BK0FA1078H03	1	PC
405811	CR800 CABLE BK0FA1078H04	2	PC
262786	NARC 750/751 LOCK EDGING SADDLE	1	PC
220314	CR2D CR2Q CABLE GUIDE WS-1NS	8	PC
220243	CR800 RUBBER MOUNT KG-010	7	PC
220304	CR800 SPACER MPS-08-0	1	PC
237852	CR800 SEAL ATT. (ELECTRIFIC.) 114-406	1	PC
405812	CR800 CONNECTOR U794D030G51	1	PC
405813	CR800 CONNECTOR U794D030G52	1	PC
64687	FUSE 1,6A	1	PC
405814	CR800 ACIN CABLE BK0FA1006H53	1	PC
405817	CR800 FAN 1	1	PC
405818	CR800 FAN 2	1	PC
248692	MR-BAT6V1	4	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

Material	Description / Price List Text / Classification
166272	1S-GR35S-02 RH-3FHR Hand signal output cable Class 100100605: FA-Robot: Cable
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
238375	1S-VD04E-05 RH-3FHR Pneumatic quadruple valve set incl. noise-inferior Class 100100603: FA-Robot: Valve
238376	1S-HC00S-01 RH-3FHR Hand signal input cable Class 100100605: FA-Robot: Cable
238377	1S-ST0304S RH-3FHR Tubes for pneumatic hand Class 100100606: FA-Robot: Tube
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
271212	2F-YZ581 Encoder Distribution Unit 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
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 Class 100100607: FA-Robot: Other Option
313063	2F-DQ535 Network Interface for CompactCom module CC-Link IE Filed AB6709 Class 100100604: FA-Robot: Interface Card
313064	4F-FS002H-W200 Force Sensor Set 200N incl. Interface unit (2F-DQ561) for FR Series Class 100100607: FA-Robot: Other Option
313105	4F-FS002H-W1000 Force Sensor Set 1000N incl. Interface unit (2F-DQ561) for FR Series Class 100100607: FA-Robot: Other Option
313106	1F-10UCBL-41 Machine cable for CR800 controller, standard, 10m Class 100100605: FA-Robot: Cable
313107	1F-15UCBL-41 Machine cable for CR800 controller, standard, 15m Class 100100605: FA-Robot: Cable
313108	1F-10LUCBL-41 Machine cable for CR800 controller, high flexible, 10m Class 100100605: FA-Robot: Cable
313109	1F-15LUCBL-41 Machine cable for CR800 controller, high flexible, 15m Class 100100605: FA-Robot: Cable

Material	Description / Price List Text / Classification
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 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
325728	2F-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
325730	1F-02UCBL-41 Machine cable for CR800 controller, standard, 2m Class 100100605: FA-Robot: Cable
327863	1F-20UCBL-41 Machine cable for CR800 controller, standard, 20m Class 100100605: FA-Robot: Cable
327864	1F-20LUCBL-41 Machine cable for CR800 controller, high flexible, 20m Class 100100605: FA-Robot: Cable
334232	RT ToolBox3 Standard UPGRADE Robot programming and simulation Software, Windows 10/11, Upgrade; USB Class 100101206: FA-Software: Software Robot
410994	RH-12/20FH POWER CABLE 1F-05UCBL-41 Machine cable for CR800 controller, standard, 5m Class 100100608: FA-Robot: Spare Part
502193	1S-VD04WE-05 RH-3FHR Pneumatic quadruple valve set incl. noise-inferior; waterproof Class 100100603: FA-Robot: Valve
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