



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/000000000000736447

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 (VAC)	1PHASE 200-230V
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)	69,0
Width (cm)	61,0
Height (cm)	137,0
Gross Weight (kg)	72,700
Volume (cdm)	576,633

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

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	101-14-4
REACH Substance CAS Number (2)	108-78-1
REACH Substance CAS Number (3)	110-71-4
REACH Substance CAS Number (4)	117-81-7
REACH Substance CAS Number (5)	119313-12-1
REACH Substance CAS Number (6)	12060-00-3
REACH Substance CAS Number (7)	127-19-5
REACH Substance CAS Number (8)	1303-86-2
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)	7439-92-1
REACH Substance CAS Number (15)	79-94-7
REACH Substance CAS Number (16)	80-05-7
REACH Substance CAS Number (17)	80-43-3
REACH Substance CAS Number (18)	110-80-5
Dangerous Goods Class	9
Dangerous Goods Identifier	UN3091
RoHS Compliance	NOT IN SCOPE
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=bltdae25c2bd5f2f94&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

Material	Description	Quantity	Unit
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	1F-05UCBL-41	1	PC
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 J1,2,3,4	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/RH-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

Material	Description	Quantity	Unit
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
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
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 DQ801B	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	RV-5AS-D CONNECTOR U794D030G51	1	PC

Material	Description	Quantity	Unit
405813	RV-5AS-D 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
222205	ROBOT SILICONE GREASE G501 80g	1	PC
581888	ROBOT GREASE 300G: MULTEMP PS No.2	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
166272	1S-GR35S-02 Hand signal output cable for robot type RH-3FHR 1S-GR35S-02 Class 100100605: FA-Robot: Cable
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
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 Hand signal input cable 1S-HC00S-01 for Rob. type RH-3FHR Class 100100605: FA-Robot: Cable
238377	RH-3FHR pneumatig pipes 1S-ST0304S RH-3FHR Tubes for pneumatic hand 1S-ST0304S 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 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
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
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 4F-FS002H-W2 Class 100100607: FA-Robot: Other Option

Material	Description / Price List Text / Classification
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
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
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
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
410994	1F-05UCBL-41 Machine cable for CR800 controller, standard, 5m Class 100100605: FA-Robot: Cable
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
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