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2020
Club
Double Handed

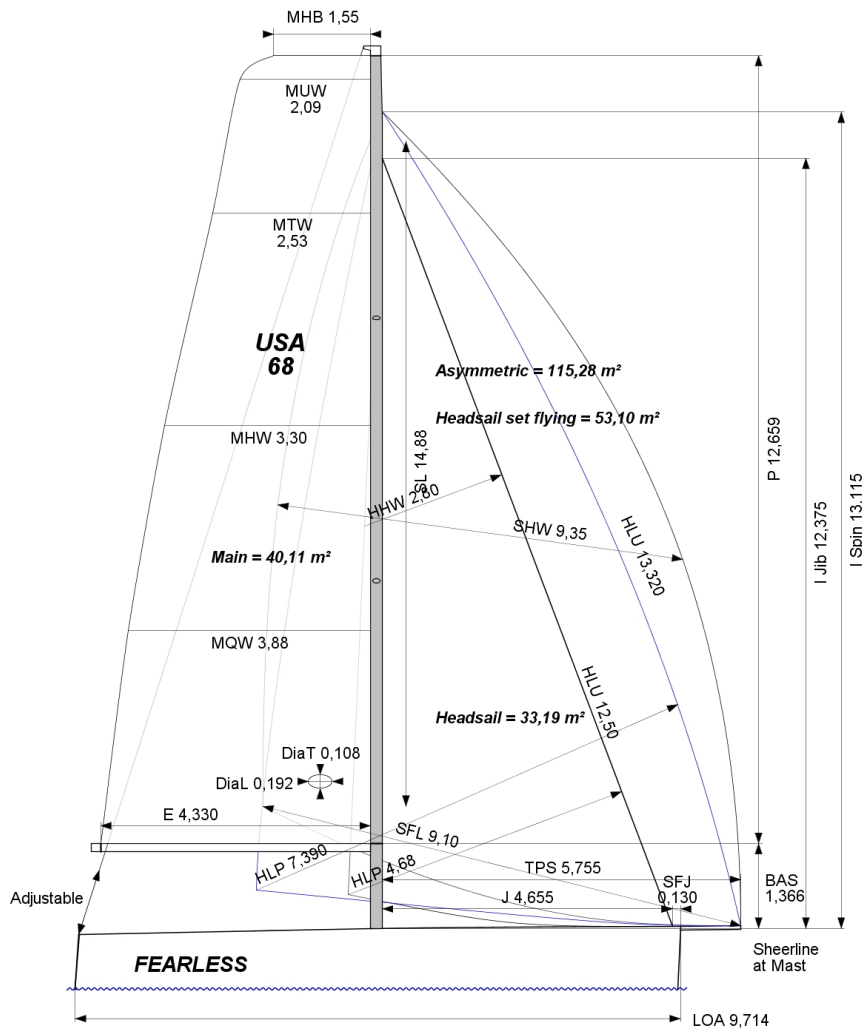
Rating Office

Offshore
Racing
Congress



Certificate

Number **US6576**
Issued On **26/08/2020**
ORC Ref **03410000P29**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**



BOAT	
Name	FEARLESS
Sail Nr	USA 68

GPH	
	588.1

HULL			
Data File	US6576DH	LOA	9.714m
Offset File	FIGARO3a.off	MB	3.452m
Displacement	3,689kg	Draft	2.523m

Crew Weight	
Default	170kg
Maximum	180kg
Non Manual Pwr	No

CLASS	
Class	BENETEAU FIGARO 3
Designer	VPLP
Builder	Beneteau
Series	03/2018
Age Date	01/2019
Age Allowance	0.065%

IMS Division	Performance	Dynamic All.	0.000%
Fiber Rigging	No	Construction	Cored
Crew Arm Ex		Aramid Core	No
		Carbon Rudder	Yes
		Light Stanchions	No

Sails Limitations	
Headsails	5
Spinnakers	4

IMSL	9.717m	VCGD	-0.093m	Sink	18.13kg/mm
RL	8.956m	VCGM	-0.116m	WS	21.85m²
LSM0	9.749m	Displacement/Length ratio	3.9813		

Asymmetric on centerline	
Spinnaker configuration	
Symmetric:	No
Asymmetric:	Yes 115.28
Flying H/S:	Yes 53.10
Spin. Pole:	No

COMMENTS	

Water Ballast	0	Trim Tab	No
BLR Index	0.0000		

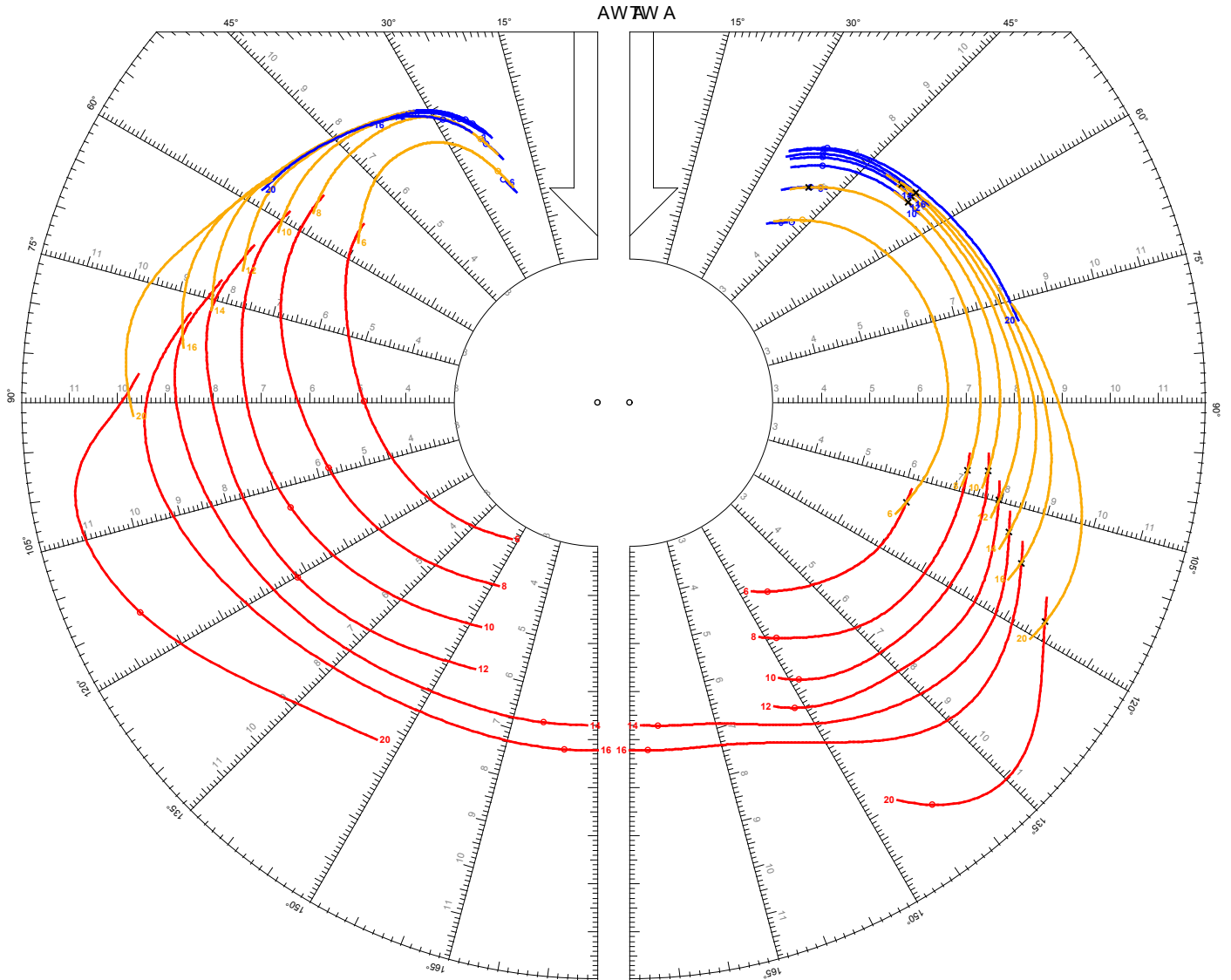
PROPELLER	
Type	No Propeller

DYNAMIC STABILITY SYSTEM			
Wing Span	2.300	Maximum Thickness	0.050
Wing Angle	75.0	Root Chord Distance	1.800
Chord Length	0.450		

Stability (Measured)	
Limit Positive Stab.:	115.1°
Stability Index:	110.4

SCORING OPTIONS		
	Time on Distance	Time on Time
Coastal or Long Distance	576.6	1.0406
Circular Random	588.1	1.0202
Predominantly Upwind	574.8	1.0438
Predominantly Downwind	533.8	1.1241

Owner	



Polar Plot for Boat	
Name	FEARLESS
Sail Number	USA 68
Class	BENETEAU FIGARO 3
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Double Handed Certificate Appendix

BOAT			
Name	FEARLESS	Certificate Number	US6576
Sail Nr	USA 68	Issued On	26/08/2020

TIME ALLOWANCES								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	
Beat VMG	947.9	803.3	730.5	705.6	695.3	683.5	670.8	
52°	618.8	535.7	509.5	495.5	487.2	481.9	473.7	
60°	581.9	513.6	492.6	477.7	467.9	459.9	455.0	
75°	549.7	496.4	472.9	450.0	435.1	425.6	413.0	
90°	544.0	493.6	467.6	441.1	414.0	396.5	376.5	
110°	588.3	502.6	467.2	432.4	410.3	390.4	348.2	
120°	601.1	508.6	470.1	434.5	396.8	373.2	336.0	
135°	672.8	543.9	489.6	455.9	421.0	385.6	313.3	
150°	795.2	638.4	542.0	492.9	467.7	442.0	373.3	
Run VMG	918.2	737.2	625.9	568.0	536.7	498.4	431.0	
Selected Courses								
Windward / Leeward	933.1	770.3	678.2	636.8	616.0	590.9	550.9	
Circular Random	793.7	648.7	572.2	527.6	498.5	476.9	442.2	
Coastal / Long Distance	931.6	723.9	613.3	551.8	514.1	478.9	420.6	
Non Spinnaker	862.7	697.1	608.1	555.6	521.8	497.9	463.6	

Velocity Prediction in Knots for True Wind Speeds								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	
Beat Angles	43.5°	41.6°	39.2°	38.3°	37.9°	37.5°	39.0°	
Beat VMG	3.80	4.48	4.93	5.10	5.18	5.27	5.37	
52°	5.82	6.72	7.07	7.27	7.39	7.47	7.60	
60°	6.19	7.01	7.31	7.54	7.69	7.83	7.91	
75°	6.55	7.25	7.61	8.00	8.27	8.46	8.72	
90°	6.62	7.29	7.70	8.16	8.69	9.08	9.56	
110°	6.12	7.16	7.71	8.33	8.77	9.22	10.34	
120°	5.99	7.08	7.66	8.29	9.07	9.65	10.71	
135°	5.35	6.62	7.35	7.90	8.55	9.34	11.49	
150°	4.53	5.64	6.64	7.30	7.70	8.14	9.64	
Run VMG	3.92	4.88	5.75	6.34	6.71	7.22	8.35	
Gybe Angles	143.8°	148.0°	148.5°	151.5°	175.0°	177.0°	143.0°	